

APPENDIX C

Analytical Results and Data Validation Memorandum



Memorandum

TO: John Long **DATE:** July 11, 2006
FROM: Tasya Gray **PROJ. NO.:** 8769
CC: Project File **PROJ. NAME:** Former Rhone-Poulenc Site
SUBJECT: Western Parcel Redevelopment Soil Sampling
Summary Data Quality Review – SDGs K0604573, K0604574, and K0604601

This memorandum presents Geomatrix Consultants, Inc. (Geomatrix's), summary data quality review of 61 primary samples and three composite samples (composited by the laboratory from 117 original discrete samples) collected on June 2 and 5, 2006. The samples were submitted to Columbia Analytical Services (CAS), a Washington State Department of Ecology (Ecology)-accredited laboratory, located in Kelso, Washington. The three composite samples were initially analyzed and reported by CAS as sample delivery group (SDG) K0604573. Subsequently, 50 of the original 117 samples submitted to CAS for K0604573 were analyzed and reported by CAS as discrete samples in SDG K0604601. The samples were analyzed for one or more of the following organic and/or inorganic analyses:

- Metals (copper, arsenic, barium, cadmium, chromium, lead, and/or selenium) by EPA Method 6020,
- Mercury by EPA Method 7471A,
- Silver by EPA Method 200.8,
- Flashpoint by Method 1020,
- Total Petroleum Hydrocarbons (TPH) diesel range by Method NWTPH-Dx,
- TPH gasoline range by Method NWTPH-Gx,
- TPH hydrocarbon identification screen (HCID) by Method NWTPH-HCID,
- Semivolatile organic compounds (SVOCs) by EPA Method 8270C.

The analyses were performed in general accordance with methods specified in U.S. Environmental Protection Agency's (EPA) Test Methods for Evaluating Solid Waste (SW-846), January 1995 and associated revisions.

Laboratory SDGs associated with the June 2006 sampling event are listed below:



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<u>Laboratory SDG</u>	<u>Date(s) Collected</u>
K0604573	June 2 and 5, 2006
K0604574	June 2 and 5, 2006
K0604601	June 2 and 5, 2006

The samples associated with each SDG are tabulated at the end of this memorandum. Upon receipt by CAS, the sample jar information was compared to the chain-of-custody form. Discrepancies were noted by CAS and addressed with Geomatrix personnel prior to sample analyses. The temperatures of the coolers were recorded as part of the check-in procedure. The temperatures of the coolers were within the acceptable range of 4 +/- 2 °C.

Data review is based on method performance criteria and QC criteria as documented in the Soil Sampling Quality Assurance Project Plan (QAPP), May 2006. The laboratory provided validatable packages containing summarized sample results and associated QA/QC data as well as instrument printouts and sample preparation and injection log pages as required by the QAPP. The data review conducted on these SDGs included a review of summarized results and QA/QC data per the requirements set forth in Section D.1 of the QAPP. The control limits provided in the QAPP are advisory limits; therefore, the most current control limits provided by the laboratory were used to evaluate the quality control data. In cases where the laboratory did not track limits for an analyte, the limits in the QAPP were used. Hold times, calibration verification, method blanks, surrogate recoveries, laboratory control samples (LCS), matrix spike/matrix spike duplicate (MS/MSD) results, laboratory duplicate results, field QC results, and reporting limits were reviewed to assess compliance with applicable methods and the QAPP. If data qualification was required, data were qualified in general accordance with the definitions and use of qualifying flags outlined in the following EPA documents: USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review, October 1999, and USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Inorganic Data Review, October 2004.

The following qualifiers may be added to the data:

- U: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ: The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.



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- R: The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ORGANIC ANALYSES

Samples were analyzed for TPH diesel and gasoline range, TPH HCID, and SVOCs by the methods identified in the introduction to this report and were evaluated for the following criteria.

1. Holding Times – Acceptable
2. Calibration Verification – Acceptable except as noted:

SVOCs by EPA Method 8270C: The laboratory noted in the case narrative that the initial calibration verification exceeded the hold time by one day. Since all analytes were within the method specified criteria, the laboratory determined that the calibration was still valid and no associated data were qualified.

3. Blanks – Acceptable except as noted:

A method blank was prepared with each laboratory sample batch. The laboratory inadvertently did not collect an equipment blank from the grinding equipment as specified in the QAPP.

TPH diesel range by Method NWTPH-Dx: Residual range organics were detected at a concentration between the MDL and the MRL in the method blank for SDG K0604574, at 4.7 mg/kg. This is considered reportable as non-detect (U) at the MRL.

TPH gasoline range by Method NWTPH-Gx: Gasoline was detected at a concentration between the MDL and the MRL in the method blank for SDG K0604574, at 4.5 mg/kg. This is considered reportable as non-detect (U) at the MRL.

SVOCs by EPA Method 8270C: Di-n-butyl phthalate and bis(2-ethylhexyl) phthalate were detected at concentrations between the MDL and the MRL in the method blank for SDG K0604574. These are considered reportable as non-detect (U) at the MRL.

4. Surrogates – Acceptable except as noted:

TPH diesel range by Method NWTPH-Dx: The o-terphenyl surrogate recovery for NWC-2-36W was 49%, slightly below the 50% control limit. Since all other surrogate recoveries were within control limits, no associated data were qualified.



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TPH gasoline range by Method NWTPH-Gx: The 4-bromofluorobenzene surrogate recoveries for samples NWC-2-6W, NWC-2-7W, NWC-2-8W, NWC-2-36W, and NWC-2-42W in SDG K0604574 were all above the control limit. The laboratory reported in the case narrative that these elevated recoveries are due to dilutions required by the analyte concentrations in the sample, which resulted in surrogate concentrations below the calibration range.

TPH HCID by Method NWTPH-HCID: One surrogate recovery was outside the control limits for samples NWC-2-6W, NWC-2-36W, and NWC-2-42W. Since each of these samples was additionally run for full TPH analysis by NWTPH-Dx and NWTPH-Gx and all other surrogates were within control limits, associated results were not qualified.

5. Laboratory Control Samples (LCS or Blank Spike) – Acceptable except as noted:

The LCS recovery for benzoic acid in SDG K0604574 was 9%, below the 10% control limit, and the associated relative percentage difference (RPD) for the LCS/LCSD was 56%, above the 40% limit. Since benzoic acid is not a required LCS analyte and is used for advisory purposes only, associated results were not qualified. The RPD for the LCS/LCSD was also above the 40% limit for 2,4-dimethylphenol, at 53%. Since neither benzoic acid nor 2,4-dimethylphenol was detected in the associated samples, data were not qualified based on the RPD exceedances.

6. Laboratory Duplicates – Acceptable except as noted:

A laboratory duplicate was performed on 10% of samples, as specified in the QAPP, with the exception of SVOCs. A LCS duplicate was reported for SVOCs, but not a laboratory project duplicate. The RPDs for all duplicates were below the project-specific control limit of 30%.

7. Field Duplicates – Acceptable:

Field duplicates were not collected in the field. They were collected in the laboratory after the composite samples were ground and homogenized. A field duplicate was collected by the laboratory for this sampling event for sample NWC-2-42W and was given the sample ID, NWC-2-42WDUP. The RPDs for all duplicates were below the project specific control limit of 30%, as shown in the table below.



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Sample ID/ Lab Duplicate ID	SDG	Analyte	Primary Result (mg/kg)	Duplicate Result (mg/kg)	RPD (%)
NWC-2-42W/NWC-2-42WDUP	K0604574	diesel residual range gasoline	1500 210 71	1400 190 74	7 7 5

8. Matrix Spike (MS) – Acceptable except as noted:

A matrix spike was not reported with SDG K0604574. Data were reviewed based on the lab control spike, which was within control limits and no associated data were qualified.

9. Reporting Limits – Acceptable except as noted:

TPH diesel range by Method NWTPH-Dx: The laboratory flagged all results in SDG K0604574 for the chromatographic fingerprint not resembling a petroleum product. This result should be evaluated during use of the data.

TPH gasoline range by Method NWTPH-Gx: The laboratory flagged all results in SDG K0604574 as resembling a petroleum product, but the elution pattern does not match the calibration standard.

SVOCs by EPA Method 8270C: The reporting limits for many SVOCs reported in SDG K0604574 are elevated due to high levels of non-target analytes requiring dilution of the samples prior to analysis.

INORGANIC ANALYSES

Samples were analyzed for metals by the methods identified in the introduction to this report and were evaluated for the following criteria.

1. Holding Times – Acceptable.
2. Calibration Verification – Acceptable.
3. Blanks – Acceptable except as noted:



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A method blank was prepared with each laboratory sample batch. Copper was detected at concentrations between the MDL and the MRL in all of the method blanks, ranging from 0.09 to 0.12 mg/kg. Chromium was also detected at a concentration between the MDL and the MRL in the method blank for SDG K0604574. These are considered reportable as non-detect (U) at the MRL. The laboratory inadvertently did not collect an equipment blank from the grinding equipment as specified in the QAPP.

4. Laboratory Control Samples (LCS or Blank Spike) – Acceptable.

5. Laboratory Duplicates – Acceptable except as noted:

Metals by EPA 6020: A laboratory duplicate was performed on 10% of samples, as specified in the QAPP. The relative percent differences (RPDs) were below the project-specific control limit of 30%, except for copper in NWC-2-1A and duplicate NWC-2-1AD, and in NWC-1-22W and duplicate NWC-1-22WD, as shown in bold type in the table below. The results for copper in these samples were qualified as estimated and flagged with a “J” because the duplicate RPD was greater than 30 percent.

Sample ID/ Lab Duplicate ID	SDG	Analyte	Primary Result (mg/kg)	Duplicate Result (mg/kg)	RPD (%)
NWC-1 Composite/NWC-1 CompositeD	K0604573	copper	1200	1340	11
NWC-1-22W/NWC-1-22WD	K0604574	arsenic	3.63	4.34	18
		barium	46.2	49.6	7
		cadmium	0.160	0.207	25
		chromiu m	14.4	16.9	16
		copper	2150	2940	31
		lead	23.3	27.9	18
		mercury	1.910	1.630	16
		selenium	0.3	0.4	9
		silver	0.129	0.146	12
NWC-1-37A/NWC-1-37AD	K0604601	copper	3880	3610	7
NWC-2-11A/NWC-2-11AD	K0604601	copper	32.9	36.5	10
NWC-2-1A/NWC-2-1AD	K0604601	copper	14.7	23.8	47
NWC-2-20A/NWC-2-20AD	K0604601	copper	45.5	38	18
NWC-2-30A/NWC-2-30AD	K0604601	copper	28	22.9	20



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6. Matrix Spike (MS) – Acceptable except as noted:

Metals by EPA 6020: Matrix spikes were performed on samples NWC-1 Composite (SDG K0604573), NWC-1-22-W (SDG K0604574), and NWC-1-37AS (SDG K0604601). The percentage recoveries for copper and mercury are not applicable, because the spike concentrations were much lower than the sample analyte concentrations.

The recovery for the spike sample performed on sample NWC-2-30AS (SDG K0604601) was 5%, below the control limit of 52%. A post-digest spike was performed on other samples in the SDG, but not on NWC-2-30AS. The associated result is qualified as estimated low and flagged “J-“. Since all other spike recoveries were within control, no other results are qualified based on the spike results.

7. Field Duplicates – Acceptable

Field duplicates were not collected in the field. They were collected in the laboratory after the composite samples were ground and homogenized. The composite samples are evaluated under separate SDGs, though they are a part of this sampling event. The field duplicate frequency of 10% was achieved for this sampling event, though field duplicates were not submitted for inorganic analysis with the samples evaluated in these SDGs.

8. Reporting Limits – Acceptable except as noted:

Selenium was detected at levels between the MDL and the MRL in samples collected as part of SDG 0604574. Associated results are qualified as estimated and flagged “J” (replacing the laboratory qualifier “B”).

OVERALL ASSESSMENT OF DATA

The CAS SDGs K0604573, K0604574, and K0604601 are 100 percent complete. The data usability is based on EPA’s guidance documents and the QAPP referenced in the introduction to this report. Few problems were identified and analytical performance was generally within specified limits. The data, as qualified, are acceptable and meet the project’s data quality objectives.



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Sample	SDG	Qualified Analyte	Qualified Result	Units	Qualifier Reason
NWC-1 Composite	K0604573	none			
NWC-2 Composite	K0604573	none			
NWC-3 Composite	K0604573	none			
NWC-2-1A	K0604601	copper	14.7 J	mg/kg	elevated duplicate RPD
NWC-2-3A	K0604601	none			
NWC-2-4A	K0604601	none			
NWC-2-5A	K0604601	none			
NWC-2-6A	K0604601	none			
NWC-2-7A	K0604601	none			
NWC-1-8A	K0604601	none			
NWC-2-8A	K0604601	none			
NWC-2-9A	K0604601	none			
NWC-2-10A	K0604601	none			
NWC-2-11A	K0604601	none			
NWC-1-13A	K0604601	none			
NWC-2-13A	K0604601	none			
NWC-2-14A	K0604601	none			
NWC-2-15A	K0604601	none			
NWC-1-16A	K0604601	none			
NWC-2-16A	K0604601	none			
NWC-2-17A	K0604601	none			
NWC-2-18A	K0604601	none			
NWC-2-19A	K0604601	none			
NWC-2-20A	K0604601	none			
NWC-2-21	K0604601	none			
NWC-2-22A	K0604601	none			
NWC-2-23A	K0604601	none			
NWC-2-24A	K0604601	none			
NWC-2-25A	K0604601	none			
NWC-2-26A	K0604601	none			
NWC-2-27A	K0604601	none			
NWC-2-28A	K0604601	none			
NWC-2-29A	K0604601	none			
NWC-2-30A	K0604601	copper	28.0 J-	mg/kg	low spike recovery
NWC-2-31A	K0604601	none			
NWC-1-32A	K0604601	none			
NWC-2-32A	K0604601	none			
NWC-2-33A	K0604601	none			
NWC-2-34A	K0604601	none			
NWC-1-35A	K0604601	none			
NWC-2-35A	K0604601	none			
NWC-1-36A	K0604601	none			
NWC-2-36A	K0604601	none			
NWC-1-37A	K0604601	none			
NWC-2-37A	K0604601	none			



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Sample	SDG	Qualified Analyte	Qualified Result	Units	Qualifier Reason
NWC-1-38A	K0604601	none			
NWC-2-38A	K0604601	none			
NWC-1-40A	K0604601	none			
NWC-2-40A	K0604601	none			
NWC-1-41A	K0604601	none			
NWC-2-41A	K0604601	none			
NWC-1-42A	K0604601	none			
NWC-2-42A	K0604601	none			
NWC-2-5W	K0604574	none			
NWC-2-6W	K0604574	none			
NWC-2-7W	K0604574	none			
NWC-3-24W	K0604574	none			
NWC-1-22W	K0604574	copper	2150 J	mg/kg	elevated duplicate RPD
		selenium	0.3 J	mg/kg	between MDL and MRL
NWC-1-2W	K0604574	selenium	0.8 J	mg/kg	between MDL and MRL
NWC-2-8W	K0604574	none			
NWC-2-36W	K0604574	none			
NWC-1-12W	K0604574	selenium	0.4 J	mg/kg	between MDL and MRL
NWC-2-39W	K0604574	selenium	0.3 J	mg/kg	between MDL and MRL
NWC-2-42W	K0604574	none			

June 16, 2006

Service Request No: K0604573

John Long
Geomatrix Consultants, Incorporated
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101



RE: NW Corner - FRP/8769.005/4

Dear John:

Enclosed are the results of the rush sample(s) submitted to our laboratory on June 06, 2006. For your reference, these analyses have been assigned our service request number K0604573.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3376.

Respectfully submitted,

Columbia Analytical Services, Inc.


Gregory Salata, Ph.D. for
Project Chemist

GS/lmb

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

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Case Narrative

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COLUMBIA ANALYTICAL SERVICES, INC.

Client: Geomatrix Consultants, Inc.
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request No.: K0604573
Date Received: 06/06/06

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One hundred seventeen soil samples were received for analysis at Columbia Analytical Services on 06/06/06. As instructed, the discreet samples were composited at the laboratory to create 3 composite samples, NWC-1 Composite, NWC-2 Composite, and NWC-3 Composite. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Total Metals

Matrix Spike Recovery Exceptions:

The control criteria for matrix spike recovery of Copper for sample NWC-1 Composite is not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

No other anomalies associated with the analysis of these samples were observed.

Approved by

Date

6/16/06

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**Chain of Custody
Documentation**

00066



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CHAIN OF CUSTODY

SR#:

K0604573

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

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REPORT REQUIREMENTS		INVOICE INFORMATION		
<input type="checkbox"/> I. Routine Report: Method Blank, Surrogate, as required <input checked="" type="checkbox"/> II. Report Dup., MS, MSD as required <input type="checkbox"/> III. Data Validation Report (includes all raw data) <input type="checkbox"/> IV. CLP Deliverable Report <input type="checkbox"/> V. EDD		<p>P.O. # <u>8769.005/4</u> Bill To: <u>Geomatics</u> <u>(John Long)</u> </p>	Circle which metals are to be analyzed: Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg	
		TURNAROUND REQUIREMENTS	*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: (CIRCLE ONE)	
		<input type="checkbox"/> 24 hr. <input type="checkbox"/> 5 Day <u>72 hr</u> <input type="checkbox"/> Standard (10-15 working days) <input type="checkbox"/> Provide FAX Results Requested Report Date	SPECIAL INSTRUCTIONS/COMMENTS: Please composite all samples into three multiincremental samples (NWC-1-1 + NWC-1-2 + NWC-1-3 + NWC-1-4 + ...) (NWC-2-1 + NWC-2-2 + NWC-2-3 NWC-2-4 + ...). Please grind composite samples in accordance w/ QAPP + Grinding SOP.	



An Employee - Owned Company

CHAIN OF CUSTODY

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#:

K0604573

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PROJECT NAME						NUMBER OF CONTAINERS	REMARKS																																			
	PROJECT NUMBER	PROJECT MANAGER	COMPANY/ADDRESS	CITY/STATE/ZIP	E-MAIL ADDRESS		PHONE #	FAX#	SAMPLER'S SIGNATURE	N	825	8270	8270L	824	8260	8021	BTEX	Diesel	NW4-HCID Screen	Oil & Grease/TPH	PCBs	Aroclors	Pesticides/Congeners	8083-A	Chlorophenolics	Tri	Tetra	PAHS	8310	SiM	Metals, Total or Dissolved (See list below)	Cyanide	pH	Cond.	Cl	NO ₃	NO ₂	NO ₂ +NO ₃	TOC	TOX 9020	AOX 1650	506
NW Corner- FRP																																										
8 NWC-2-4	6/2/06	1118	S	1																																						
9 NWC-3-4	6/2/06	1130		1																																						
10 NWC-1-S	6/2/06	1155																																								
11 NWC-2-S	6/2/06	1158																																								
12 NWC-3-S	6/2/06	1200																																								
13 NWC-1-6	6/2/06	1303																																								
14 NWC-2-6	6/2/06	1305																																								
15 NWC-3-6	6/2/06	1307																																								
16 NWC-1-7	6/2/06	1339																																								
17 NWC-2-7	6/2/06	1341																																								
REPORT REQUIREMENTS					INVOICE INFORMATION					Circle which metals are to be analyzed:																																
<input type="checkbox"/> I. Routine Report: Method Blank, Surrogate, as required					P.O. # <u>8769.00514</u> Bill To: <u>John Long, Grix</u>					Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg																																
<input checked="" type="checkbox"/> II. Report Dup., MS, MSD as required					TURNAROUND REQUIREMENTS 24 hr. <u>48 hr.</u> 5 Day <u>72 hr.</u> Standard (10-15 working days) Provide FAX Results					*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: (CIRCLE ONE)																																
<input type="checkbox"/> III. Data Validation Report (includes all raw data)										SPECIAL INSTRUCTIONS/COMMENTS: <u>See p. 1</u>																																
<input type="checkbox"/> IV. CLP Deliverable Report																																										
<input type="checkbox"/> V. EDD																																										
<u>810000</u>					<u>Requested Report Date</u>																																					
RELINQUISHED BY:					RECEIVED BY:					RELINQUISHED BY:					RECEIVED BY:																											
<u>Zur S</u> Signature <u>Zanac Geomatics</u> Printed Name					<u>R Shy</u> Signature <u>Mark Shy</u> Printed Name					<u>6/6/06 0725</u> Date/Time <u>mc Delivery</u> Firm					<u>Signature</u> Printed Name					<u>6/6/06 0725</u> Date/Time <u>Firm</u>																						



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SR#: 10604573
PAGE 3 OF 123 COC# 2AS

PROJECT NAME NW Corner- FRP					NUMBER OF CONTAINERS	REMARKS																	
PROJECT NUMBER																							
PROJECT MANAGER																							
COMPANY/ADDRESS																							
CITY/STATE/ZIP																							
E-MAIL ADDRESS																							
PHONE #		FAX#																					
SAMPLER'S SIGNATURE <i>Zac S</i>																							
SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX																			
18 NWC-3-7	6/5/06	1343	S	1																			
19 NWC-1-8	6/5/06	0807		1																			
20 NWC-2-8	6/5/06	0809		1																			
21 NWC-3-8	6/5/06	0810		1																			
22 NWC-1-9	6/5/06	0838		1																			
23 NWC-2-9	6/5/06	0837		1																			
24 NWC-3-9	6/5/06	0839		1																			
25 NWC-1-10	6/5/06	0908		1																			
26 NWC-2-10	6/5/06	0909		1																			
27 NWC-3-10	6/5/06	0910		1																			

REPORT REQUIREMENTS	INVOICE INFORMATION			Circle which metals are to be analyzed:																		
	P.O. #	8769.0DS/4		Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg																		
	Bill To:	John Long; GLX		Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg																		
	<input checked="" type="checkbox"/> I. Routine Report: Method Blank, Surrogate, as required				*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: (CIRCLE ONE)																	
	<input checked="" type="checkbox"/> II. Report Dup., MS, MSD as required																					
<input type="checkbox"/> III. Data Validation Report (includes all raw data)				SPECIAL INSTRUCTIONS/COMMENTS: <i>See p. 1</i>																		
<input type="checkbox"/> IV. CLP Deliverable Report																						
<input type="checkbox"/> V. EDD																						

RELINQUISHED BY: <i>Zac S</i> Signature Lenna Gaffordwhite Geomatics Printed Name	RECEIVED BY: <i>R.S.L.</i> Signature Robert Shochy MC Delivery Printed Name	RELINQUISHED BY: Signature Date/Time Firm	RECEIVED BY: <i>R.P.</i> Signature 6/6/06 1500 Date/Time CAGS Printed Name
---	---	--	--



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SR#: K0604573

PAGE 4 OF 123 COC # 245

PROJECT NAME	PROJECT NUMBER	PROJECT MANAGER	COMPANY/ADDRESS	CITY/STATE/ZIP	E-MAIL ADDRESS	PHONE #	FAX#	SAMPLER'S SIGNATURE	SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	TESTS REQUESTED																		REMARKS
															Semi-volatile Organics by GC/MS	Volatile Organics 8270L	Hydrocarbons (see below)	BTEX	Diesel	Gas	Fuel Fingerprint (FFQ)	Oil & Grease Screen	PCB's	Aroclors	Pesticides	Congeners	Chlorophenolics	Tri	Tetra	PAHs	8310	PCP	Metals, Total or Dissolved (See list below)
28	NWC-1-11	6/6/06	0915	S	1																												
29	NWC-2-11		0916																														
30	NWC-3-11		0920																														
31	NWC-1-12																																
32	NWC-2-12																																
33	NWC-3-12																																
34	NWC-1-13		1004																														
	NWC-2-13		1006																														
	NWC-3-13		1009																														
	NWC-1-14		1058																														

REPORT REQUIREMENTS

- I. Routine Report: Method Blank, Surrogate, as required
- II. Report Dup., MS, MSD as required
- III. Data Validation Report (includes all raw data)
- IV. CLP Deliverable Report
- V. EDD

INVOICE INFORMATION

P.O. # 8769.005/4

Bill To: John Lang,
Geomatics

TURNAROUND REQUIREMENTS

- 24 hr. 48 hr.
 5 Day 72 hr
 Standard (10-15 working days)
 Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

See p. 1

RELINQUISHED BY:

[Signature] *6/6/06 705*
 Date/Time
Zimmermann Geomatics
 Printed Name Firm

RECEIVED BY:

[Signature] *6/6/06 0721*
 Date/Time
Robert Shockey Inc Delivery
 Printed Name Firm

RELINQUISHED BY:

Signature _____ Date/Time _____
 Printed Name Firm

RECEIVED BY:

[Signature] *6/6/06 1500*
 Date/Time
Almond CTS
 Printed Name Firm



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SR#: 128

K6604573

PROJECT NAME: <i>NW Corner - ERP</i>																													
PROJECT NUMBER																													
PROJECT MANAGER																													
COMPANY/ADDRESS																													
CITY/STATE/ZIP																													
E-MAIL ADDRESS																													
PHONE #		FAX#																											
SAMPLER'S SIGNATURE <i>Za S</i>																													
SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semi-volatile Organics 625	Volatile Organics 8270L	GC/MS 8270LL	Hydrocarbons Gas	BTEX	Diesel	Oil	NW-HCID Screen	Oil & Grease/TPH	PCBs	Aroclors	Pesticides/Congeners	Chlorophenolics	Tetra	PAHs	PCP	Metals (See list below)	Cyanide	pH, Cond., Cl, SO ₄ , PO ₄ , F, NO ₂ , DOC (circle) NO _x , TKN, TOC, NO ₂ +NO ₃	Hex-Chrom				
NWC-2-14	6/5/06	0857		S	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
NWC-3-14		0859				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
NWC-1-15		0826				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
NWC-2-15		0827				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
NWC-3-15		0829				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
NWC-1-16		0800				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
NWC-2-16		0801				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
NWC-3-16	↓	0802				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
NWC-1-17	6/2/06	1324				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
NWC-2-17	6/2/06	1320	↓	↓		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
REPORT REQUIREMENTS		INVOICE INFORMATION		Circle which metals are to be analyzed:																									
<input type="checkbox"/> I. Routine Report: Method Blank, Surrogate, as required		P.O. # <i>8769.005/4</i>		Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg																									
<input type="checkbox"/> II. Report Dup., MS, MSD as required		Bill To: <i>John Lang</i> <i>Granular</i>		Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg																									
<input type="checkbox"/> III. Data Validation Report (includes all raw data)		TURNAROUND REQUIREMENTS		*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: (CIRCLE ONE)																									
<input type="checkbox"/> IV. CLP Deliverable Report		24 hr. <i>48 hr.</i>																											
<input type="checkbox"/> V. EDD		5 Day <i>72 hr.</i>																											
		Standard (10-15 working days)		SPECIAL INSTRUCTIONS/COMMENTS:																									
		Provide FAX Results		<i>See p. 1</i>																									
		Requested Report Date																											
RELINQUISHED BY: <i>Za S</i>		RECEIVED BY: <i>R Shultz</i>		RELINQUISHED BY:																									
Signature <i>Zanna Attemhile</i>		Date/Time <i>6/6/06 705</i>		Signature <i>Robert Shultz</i>		Date/Time <i>6/6/06 6720</i>		Signature <i>Printed Name</i>		Date/Time <i>Firm</i>		RECEIVED BY: <i>R. Payne</i>																	



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SR#:KO604573PAGE 6 OF 123 COC #
ZTS

PROJECT NAME <u>NW Corner - FRP</u>	PROJECT NUMBER	PROJECT MANAGER	COMPANY/ADDRESS	CITY/STATE/ZIP	E-MAIL ADDRESS	PHONE #	FAX#	SAMPLER'S SIGNATURE <u>Ben S.</u>	NUMBER OF CONTAINERS	REMARKS																					
								Semivolatile Organics 625 <input type="checkbox"/> 8270 <input type="checkbox"/> by GC/MS	Volatile Organics 624 <input type="checkbox"/> 8270LL <input type="checkbox"/>	Hydrocarbons (* see below) Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Oil <input type="checkbox"/>	Fuel Fingernail Screen NW-HClD Screen <input type="checkbox"/>	PCBs Aroclors <input type="checkbox"/>	Pesticides/Herbicides 608 <input type="checkbox"/> 8081A <input type="checkbox"/>	Congeners <input type="checkbox"/>	Chlorophenolics Tri <input type="checkbox"/> Tetra <input type="checkbox"/> PCP <input type="checkbox"/>	PAHs 8310 <input type="checkbox"/> SIM <input type="checkbox"/>	Metals, Total or Dissolved (See list below) Cyanide <input type="checkbox"/>	pH, Cond., Cl, SO ₄ , PO ₄ , F, NO ₂ , NH ₃ -N, COD, TSS, TDS, Total P, TTKN, TOC, DOC (circle) NO ₂ +NO ₃ , TOX 9020 <input type="checkbox"/> AOX 1650 <input type="checkbox"/> 506 <input type="checkbox"/>	Hex-Chrom <input type="checkbox"/>												
45	NWC-3-17	6/2/06	1331	S	1																										
16	NWC-1-18	6/2/06	1253		1																										
47	NWC-2-18	6/2/06	1255																												
48	NWC-3-18	6/2/06	1257																												
49	NWC-1-19	6/2/06	1440																												
50	NWC-2-19	6/2/06	1143																												
51	NWC-3-19	6/2/06	1145																												
52	NWC-1-20	6/2/06	1105																												
53	NWC-2-20	6/2/06	1107																												
54	NWC-3-20	6/2/06	1109																												
REPORT REQUIREMENTS								INVOICE INFORMATION																							
<ul style="list-style-type: none"> I. Routine Report: Method Blank, Surrogate, as required <input checked="" type="checkbox"/> II. Report Dup., MS, MSD as required III. Data Validation Report (includes all raw data) IV. CLP Deliverable Report V. EDD 								<p>P.O. # <u>8769.00514</u> Bill To: <u>John Lang, GMAX</u></p>																							
								Circle which metals are to be analyzed:																							
								Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg																							
								*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: (CIRCLE ONE)																							
								SPECIAL INSTRUCTIONS/COMMENTS: <i>See p. 1</i>																							
RELINQUISHED BY: <u>Ben S.</u> Signature <u>Lanna Attenuante Geomatics</u> Printed Name								RECEIVED BY: <u>R. Stoll</u> Signature <u>Robert Shantz, Inc Delivery</u> Printed Name								RELINQUISHED BY: <u>R. Stoll</u> Signature <u>Robert Shantz, Inc Delivery</u> Printed Name								RECEIVED BY: <u>R. Stoll</u> Signature <u>Robert Shantz, Inc Delivery</u> Printed Name							



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SR#:
K060 9573
PAGE 7 OF 123 COC #
245

PROJECT NAME <i>NW Corner - FRP</i>	PROJECT NUMBER	NUMBER OF CONTAINERS	REMARKS
PROJECT MANAGER	825 <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 <input type="checkbox"/>	Semi-volatile Organics by GC/MS	
COMPANY/ADDRESS	8260 <input type="checkbox"/> 8260 <input type="checkbox"/> 8260 <input type="checkbox"/>	Volatile Organics	
CITY/STATE/ZIP	8021 <input type="checkbox"/> 8021 <input type="checkbox"/> 8021 <input type="checkbox"/>	Hydrocarbons ('see below')	
E-MAIL ADDRESS	Diesel <input type="checkbox"/> Oil <input type="checkbox"/>	BTEX <input type="checkbox"/>	
PHONE #	NW-HCD Screen <input type="checkbox"/>	Fuel Fingerprint (FFQ) <input type="checkbox"/>	
SAMPLER'S SIGNATURE <i>La S</i>	Oil & Grease TRPH <input type="checkbox"/>	PCB's <input type="checkbox"/>	
SAMPLE I.D.	1664 HEM <input type="checkbox"/>	Aroclors <input type="checkbox"/>	
DATE	1664 SGT <input type="checkbox"/>	Pesticides/Herbicides <input type="checkbox"/>	
TIME	PCP <input type="checkbox"/>	Chlorophenolics <input type="checkbox"/>	
LAB I.D.	PAHS <input type="checkbox"/>	Tri <input type="checkbox"/>	
MATRIX	S/M <input type="checkbox"/>	Tetra <input type="checkbox"/>	
		8141A <input type="checkbox"/>	
		8151M <input type="checkbox"/>	
		8151A <input type="checkbox"/>	
		PCP <input type="checkbox"/>	
		Metals, Total or Dissolved (See list below) <input type="checkbox"/>	
		Cyanide <input type="checkbox"/>	
		Hex-Chrom <input type="checkbox"/>	
		CC4	
		pH, Cond, Cl, SO ₄ , PO ₄ , F, NO ₂ , NO ₃ , BOD, TSS, DOC, Total P, TKN, TOC, NH ₃ -N, COD, DOC (circle), NO ₂₊ /NO ₃ , TOX 9220 <input type="checkbox"/>	
		AOX 1650 <input type="checkbox"/>	
		506 <input type="checkbox"/>	
REPORT REQUIREMENTS	INVOICE INFORMATION		
I. Routine Report: Method Blank, Surrogate, as required	P.O. # 8769.005/4 Bill To: John Long, GMX		
II. Report Dup., MS, MSD as required	Circle which metals are to be analyzed:		
III. Data Validation Report (includes all raw data)	Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg		
IV. CLP Deliverable Report	Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg		
V. EDD	*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: (CIRCLE ONE)		
TURNAROUND REQUIREMENTS			
24 hr.	48 hr.		
5 Day	72 hr.		
Standard (10-15 working days)			
Provide FAX Results			
SPECIAL INSTRUCTIONS/COMMENTS: <i>See p. 1</i>			
RELINQUISHED BY:		RECEIVED BY:	
<i>Zan S</i> Signature Zanna Sattenwhite Geomatrix	6/6/06 0720 Date/Time Firm	<i>R. Shk</i> Signature Robert Shockley Printed Name	6/6/06 0720 Date/Time Firm
RELINQUISHED BY:		RECEIVED BY:	
<i>R. Shk</i> Signature Robert Shockley Printed Name	6/6/06 1500 Date/Time Firm	<i>R. Shk</i> Signature Robert Shockley Printed Name	6/6/06 1500 Date/Time Firm



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SR#: K0664573

PAGE 8 OF 123 COC#

PROJECT NAME <i>NW Corner - FRP</i>	PROJECT NUMBER	REMARKS																															
PROJECT MANAGER	COMPANY/ADDRESS																																
CITY/STATE/ZIP	E-MAIL ADDRESS																																
PHONE #	FAX#																																
SAMPLER'S SIGNATURE <i>Zn S</i>	SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS																											
65 NWC-2-24	6/2/06	0837		S	I	<input type="checkbox"/> Semivolatile Organics by GC/MS	<input type="checkbox"/> 625	<input type="checkbox"/> 8270	<input type="checkbox"/> 8270LL	<input type="checkbox"/> Volatile Organics 8260	<input type="checkbox"/> 8021	<input type="checkbox"/> Diesel (see below)	<input type="checkbox"/> BTEX	<input type="checkbox"/> Fuel Fingerprint (FFQ)	<input type="checkbox"/> Oil & Grease/PCP	<input type="checkbox"/> PCB's	<input type="checkbox"/> Aroclors	<input type="checkbox"/> Congeners	<input type="checkbox"/> PAHs	<input type="checkbox"/> 808	<input type="checkbox"/> Pesticides/Herbicides	<input type="checkbox"/> Chlorophenolics	<input type="checkbox"/> Tr	<input type="checkbox"/> Tetra	<input type="checkbox"/> 8141A	<input type="checkbox"/> 1664 SGT	<input type="checkbox"/> PCP	<input type="checkbox"/> PAHs	<input type="checkbox"/> 8310	<input type="checkbox"/> SIM	<input type="checkbox"/> Metals, Total or Dissolved (See list below)	<input checked="" type="checkbox"/> Cyanide	<input type="checkbox"/> Hex-Chrom
66 NWC-3-24	6/2/06	0838				<input type="checkbox"/> 624	<input type="checkbox"/> 8260	<input type="checkbox"/> Gas	<input type="checkbox"/> 8021	<input type="checkbox"/> Diesel (see below)	<input type="checkbox"/> Fuel Fingerprint (FFQ)	<input type="checkbox"/> Oil & Grease/PCP	<input type="checkbox"/> PCB's	<input type="checkbox"/> Aroclors	<input type="checkbox"/> Congeners	<input type="checkbox"/> PAHs	<input type="checkbox"/> 808	<input type="checkbox"/> Pesticides/Herbicides	<input type="checkbox"/> Chlorophenolics	<input type="checkbox"/> Tr	<input type="checkbox"/> Tetra	<input type="checkbox"/> 8141A	<input type="checkbox"/> 1664 SGT	<input type="checkbox"/> PCP	<input type="checkbox"/> PAHs	<input type="checkbox"/> 8310	<input type="checkbox"/> SIM	<input type="checkbox"/> Metals, Total or Dissolved (See list below)	<input checked="" type="checkbox"/> Cyanide	<input type="checkbox"/> Hex-Chrom			
67 NWC-1-25	6/2/06	0856				<input type="checkbox"/> 625	<input type="checkbox"/> 8270	<input type="checkbox"/> 8270LL	<input type="checkbox"/> 8260	<input type="checkbox"/> Gas	<input type="checkbox"/> 8021	<input type="checkbox"/> Diesel (see below)	<input type="checkbox"/> Fuel Fingerprint (FFQ)	<input type="checkbox"/> Oil & Grease/PCP	<input type="checkbox"/> PCB's	<input type="checkbox"/> Aroclors	<input type="checkbox"/> Congeners	<input type="checkbox"/> PAHs	<input type="checkbox"/> 808	<input type="checkbox"/> Pesticides/Herbicides	<input type="checkbox"/> Chlorophenolics	<input type="checkbox"/> Tr	<input type="checkbox"/> Tetra	<input type="checkbox"/> 8141A	<input type="checkbox"/> 1664 SGT	<input type="checkbox"/> PCP	<input type="checkbox"/> PAHs	<input type="checkbox"/> 8310	<input type="checkbox"/> SIM	<input type="checkbox"/> Metals, Total or Dissolved (See list below)	<input checked="" type="checkbox"/> Cyanide	<input type="checkbox"/> Hex-Chrom	
68 NWC-2-25	6/2/06	0900				<input type="checkbox"/> 624	<input type="checkbox"/> 8260	<input type="checkbox"/> Gas	<input type="checkbox"/> 8021	<input type="checkbox"/> Diesel (see below)	<input type="checkbox"/> Fuel Fingerprint (FFQ)	<input type="checkbox"/> Oil & Grease/PCP	<input type="checkbox"/> PCB's	<input type="checkbox"/> Aroclors	<input type="checkbox"/> Congeners	<input type="checkbox"/> PAHs	<input type="checkbox"/> 808	<input type="checkbox"/> Pesticides/Herbicides	<input type="checkbox"/> Chlorophenolics	<input type="checkbox"/> Tr	<input type="checkbox"/> Tetra	<input type="checkbox"/> 8141A	<input type="checkbox"/> 1664 SGT	<input type="checkbox"/> PCP	<input type="checkbox"/> PAHs	<input type="checkbox"/> 8310	<input type="checkbox"/> SIM	<input type="checkbox"/> Metals, Total or Dissolved (See list below)	<input checked="" type="checkbox"/> Cyanide	<input type="checkbox"/> Hex-Chrom			
69 NWC-3-25	6/2/06	0908				<input type="checkbox"/> 625	<input type="checkbox"/> 8270	<input type="checkbox"/> 8270LL	<input type="checkbox"/> 8260	<input type="checkbox"/> Gas	<input type="checkbox"/> 8021	<input type="checkbox"/> Diesel (see below)	<input type="checkbox"/> Fuel Fingerprint (FFQ)	<input type="checkbox"/> Oil & Grease/PCP	<input type="checkbox"/> PCB's	<input type="checkbox"/> Aroclors	<input type="checkbox"/> Congeners	<input type="checkbox"/> PAHs	<input type="checkbox"/> 808	<input type="checkbox"/> Pesticides/Herbicides	<input type="checkbox"/> Chlorophenolics	<input type="checkbox"/> Tr	<input type="checkbox"/> Tetra	<input type="checkbox"/> 8141A	<input type="checkbox"/> 1664 SGT	<input type="checkbox"/> PCP	<input type="checkbox"/> PAHs	<input type="checkbox"/> 8310	<input type="checkbox"/> SIM	<input type="checkbox"/> Metals, Total or Dissolved (See list below)	<input checked="" type="checkbox"/> Cyanide	<input type="checkbox"/> Hex-Chrom	
70 NWC-1-26	6/2/06	0934				<input type="checkbox"/> 624	<input type="checkbox"/> 8260	<input type="checkbox"/> Gas	<input type="checkbox"/> 8021	<input type="checkbox"/> Diesel (see below)	<input type="checkbox"/> Fuel Fingerprint (FFQ)	<input type="checkbox"/> Oil & Grease/PCP	<input type="checkbox"/> PCB's	<input type="checkbox"/> Aroclors	<input type="checkbox"/> Congeners	<input type="checkbox"/> PAHs	<input type="checkbox"/> 808	<input type="checkbox"/> Pesticides/Herbicides	<input type="checkbox"/> Chlorophenolics	<input type="checkbox"/> Tr	<input type="checkbox"/> Tetra	<input type="checkbox"/> 8141A	<input type="checkbox"/> 1664 SGT	<input type="checkbox"/> PCP	<input type="checkbox"/> PAHs	<input type="checkbox"/> 8310	<input type="checkbox"/> SIM	<input type="checkbox"/> Metals, Total or Dissolved (See list below)	<input checked="" type="checkbox"/> Cyanide	<input type="checkbox"/> Hex-Chrom			
71 NWC-2-26	6/2/06	0935				<input type="checkbox"/> 625	<input type="checkbox"/> 8270	<input type="checkbox"/> 8270LL	<input type="checkbox"/> 8260	<input type="checkbox"/> Gas	<input type="checkbox"/> 8021	<input type="checkbox"/> Diesel (see below)	<input type="checkbox"/> Fuel Fingerprint (FFQ)	<input type="checkbox"/> Oil & Grease/PCP	<input type="checkbox"/> PCB's	<input type="checkbox"/> Aroclors	<input type="checkbox"/> Congeners	<input type="checkbox"/> PAHs	<input type="checkbox"/> 808	<input type="checkbox"/> Pesticides/Herbicides	<input type="checkbox"/> Chlorophenolics	<input type="checkbox"/> Tr	<input type="checkbox"/> Tetra	<input type="checkbox"/> 8141A	<input type="checkbox"/> 1664 SGT	<input type="checkbox"/> PCP	<input type="checkbox"/> PAHs	<input type="checkbox"/> 8310	<input type="checkbox"/> SIM	<input type="checkbox"/> Metals, Total or Dissolved (See list below)	<input checked="" type="checkbox"/> Cyanide	<input type="checkbox"/> Hex-Chrom	
72 NWC-3-26	6/2/06	0939				<input type="checkbox"/> 624	<input type="checkbox"/> 8260	<input type="checkbox"/> Gas	<input type="checkbox"/> 8021	<input type="checkbox"/> Diesel (see below)	<input type="checkbox"/> Fuel Fingerprint (FFQ)	<input type="checkbox"/> Oil & Grease/PCP	<input type="checkbox"/> PCB's	<input type="checkbox"/> Aroclors	<input type="checkbox"/> Congeners	<input type="checkbox"/> PAHs	<input type="checkbox"/> 808	<input type="checkbox"/> Pesticides/Herbicides	<input type="checkbox"/> Chlorophenolics	<input type="checkbox"/> Tr	<input type="checkbox"/> Tetra	<input type="checkbox"/> 8141A	<input type="checkbox"/> 1664 SGT	<input type="checkbox"/> PCP	<input type="checkbox"/> PAHs	<input type="checkbox"/> 8310	<input type="checkbox"/> SIM	<input type="checkbox"/> Metals, Total or Dissolved (See list below)	<input checked="" type="checkbox"/> Cyanide	<input type="checkbox"/> Hex-Chrom			
73 NWC-1-27	6/2/06	1013				<input type="checkbox"/> 625	<input type="checkbox"/> 8270	<input type="checkbox"/> 8270LL	<input type="checkbox"/> 8260	<input type="checkbox"/> Gas	<input type="checkbox"/> 8021	<input type="checkbox"/> Diesel (see below)	<input type="checkbox"/> Fuel Fingerprint (FFQ)	<input type="checkbox"/> Oil & Grease/PCP	<input type="checkbox"/> PCB's	<input type="checkbox"/> Aroclors	<input type="checkbox"/> Congeners	<input type="checkbox"/> PAHs	<input type="checkbox"/> 808	<input type="checkbox"/> Pesticides/Herbicides	<input type="checkbox"/> Chlorophenolics	<input type="checkbox"/> Tr	<input type="checkbox"/> Tetra	<input type="checkbox"/> 8141A	<input type="checkbox"/> 1664 SGT	<input type="checkbox"/> PCP	<input type="checkbox"/> PAHs	<input type="checkbox"/> 8310	<input type="checkbox"/> SIM	<input type="checkbox"/> Metals, Total or Dissolved (See list below)	<input checked="" type="checkbox"/> Cyanide	<input type="checkbox"/> Hex-Chrom	
74 NWC-2-27	6/2/06	1014	▼	▼		<input type="checkbox"/> 624	<input type="checkbox"/> 8260	<input type="checkbox"/> Gas	<input type="checkbox"/> 8021	<input type="checkbox"/> Diesel (see below)	<input type="checkbox"/> Fuel Fingerprint (FFQ)	<input type="checkbox"/> Oil & Grease/PCP	<input type="checkbox"/> PCB's	<input type="checkbox"/> Aroclors	<input type="checkbox"/> Congeners	<input type="checkbox"/> PAHs	<input type="checkbox"/> 808	<input type="checkbox"/> Pesticides/Herbicides	<input type="checkbox"/> Chlorophenolics	<input type="checkbox"/> Tr	<input type="checkbox"/> Tetra	<input type="checkbox"/> 8141A	<input type="checkbox"/> 1664 SGT	<input type="checkbox"/> PCP	<input type="checkbox"/> PAHs	<input type="checkbox"/> 8310	<input type="checkbox"/> SIM	<input type="checkbox"/> Metals, Total or Dissolved (See list below)	<input checked="" type="checkbox"/> Cyanide	<input type="checkbox"/> Hex-Chrom			
REPORT REQUIREMENTS		INVOICE INFORMATION		Circle which metals are to be analyzed:																													
I. Routine Report: Method Blank, Surrogate, as required		P.O. # <i>87169.00514</i>		Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg																													
II. Report Dup., MS, MSD as required		Bill To: <i>Telkin Long, GMX</i>		Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg																													
III. Data Validation Report (includes all raw data)		TURNAROUND REQUIREMENTS		*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: (CIRCLE ONE)																													
IV. CLP Deliverable Report		24 hr. <i>48 hr</i>		SPECIAL INSTRUCTIONS/COMMENTS:																													
V. EDD		5 Day <i>72 hr</i>		<i>Standard (10-15 working days)</i>																													
				<i>Provide FAX Results</i>																													
		Requested Report Date																															
RELINQUISHED BY: <i>James S</i> <i>6/6/06 705</i> Signature <i>Tanna Sattentrude Geomatics</i> Printed Name Firm				RECEIVED BY: <i>R. S. Shultz</i> <i>6/6/06 0720</i> Signature <i>Robert Shultz MC Delivery</i> Printed Name Firm				RELINQUISHED BY:				RECEIVED BY:																					



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SR#: K0604573PAGE 9 OF 133 COC # 2AS

PROJECT NAME <u>NW Corner - FRP</u>	PROJECT NUMBER	PROJECT MANAGER	COMPANY/ADDRESS	CITY/STATE/ZIP	E-MAIL ADDRESS	PHONE #	FAX#	SAMPLER'S SIGNATURE <u>Car S</u>	NUMBER OF CONTAINERS	REMARKS																	
										Semi-volatile Organics by GC/MS 625 <input type="checkbox"/> 8270L <input type="checkbox"/> Volatile Organics 624 <input type="checkbox"/> 8270L <input type="checkbox"/> Hydrocarbons Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Oil <input type="checkbox"/> Fuel Fingerprint (FFQ) Oil & Grease/Screen 1664 HEM <input type="checkbox"/> PCB's Aroclors <input type="checkbox"/> Congeners <input type="checkbox"/> 608 <input type="checkbox"/> Herbicides <input type="checkbox"/> Chlorophenolics <input type="checkbox"/> Tri <input type="checkbox"/> Tetra <input type="checkbox"/> PAHs <input type="checkbox"/> PCP <input type="checkbox"/> PAHS <input type="checkbox"/> SIM <input type="checkbox"/> Metals, Total or Dissolved (See list below) Cyanide <input type="checkbox"/> pH <input type="checkbox"/> Cond. <input type="checkbox"/> Hex-Chrom <input type="checkbox"/> NO ₃ <input type="checkbox"/> Cl <input type="checkbox"/> BOD <input type="checkbox"/> SO ₄ <input type="checkbox"/> NH ₃ -N <input type="checkbox"/> PO ₄ , F, NO ₂ DOC <input type="checkbox"/> TSS, TDS <input type="checkbox"/> (circle) Total-P, TN, TOC, TOX 9020 <input type="checkbox"/> NO ₂ +NO ₃ AOX 1650 <input type="checkbox"/> 506 <input type="checkbox"/>																	
75 NWC-3-27	6/2/06	1017	S	1																							
76 NWC-1-28	6/2/06	1052		1																							
77 NWC-2-28	6/2/06	1053		1																							
78 NWC-3-28	6/2/06	1056		1																							
79 NWC-1-29	6/2/06	1128		1																							
80 NWC-2-29	6/2/06	1129		1																							
81 NWC-3-29	6/2/06	1130		1																							
82 NWC-1-30	6/2/06	1244		1																							
83 NWC-2-30	6/2/06	1245		1																							
84 NWC-3-30	6/2/06	1247		1																							

REPORT REQUIREMENTS		INVOICE INFORMATION		Circle which metals are to be analyzed:	
<input type="checkbox"/> I. Routine Report: Method Blank, Surrogate, as required <input checked="" type="checkbox"/> II. Report Dup., MS, MSD as required <input type="checkbox"/> III. Data Validation Report (includes all raw data) <input type="checkbox"/> IV. CLP Deliverable Report <input type="checkbox"/> V. EDD		P.O. # <u>8769.005/4</u> Bill To: <u>John Long</u> <u>GLX</u>		Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg	
		TURNAROUND REQUIREMENTS		"INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: (CIRCLE ONE)	
		<input type="checkbox"/> 24 hr. <u>48 hr.</u> <input type="checkbox"/> 5 Day <u>72 hr.</u> <input type="checkbox"/> Standard (10-15 working days) <input type="checkbox"/> Provide FAX Results		SPECIAL INSTRUCTIONS/COMMENTS: <u>See p. 1</u>	
		Requested Report Date			

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
<u>Za S</u> Signature <u>Tanna Settembrino Geomatics</u> Printed Name	<u>MS</u> Signature <u>Albert Shook</u> Printed Name	<u>6-6-06 0720</u> Date/Time <u>NWC Del. delivery</u> Firm	<u>Alph</u> Signature <u>J. Bryant</u> Printed Name
Date/Time	Date/Time	Date/Time	Date/Time
Firm	Firm	Firm	Firm



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245

PROJECT NAME	NW Comex-FRP					PAGE	7	OF	7	COC #	24.5		
PROJECT NUMBER													
PROJECT MANAGER													
COMPANY/ADDRESS													
CITY/STATE/ZIP													
E-MAIL ADDRESS													
PHONE #	FAX#												
SAMPLER'S SIGNATURE	<u>Za S</u>												
SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semi-volatile Organics by GC/MS 625 <input type="checkbox"/> 8270 <input type="checkbox"/> 8270L <input type="checkbox"/>	Volatile Organics 624 <input type="checkbox"/> 8280 <input type="checkbox"/> 8021 <input type="checkbox"/> BTEX <input type="checkbox"/>	Hydrocarbons ('see below') Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Fuel Fingerprint (FFQ) <input type="checkbox"/>	Oil & Grease/TOC Screen 1664 HEM <input type="checkbox"/> PCBs <input type="checkbox"/>	Aroclors <input type="checkbox"/> Congeners <input type="checkbox"/> Chlorophenolics <input type="checkbox"/> PAHs <input type="checkbox"/> Metals, Total or Dissolved (See list below) <input type="checkbox"/>	PCP <input type="checkbox"/> Cyanide <input type="checkbox"/> pH, Cond. Cl, SO ₄ , NH ₃ -N, BOD, TSS, DOC, Total-P, TKN, TOC, AOX 1650 <input type="checkbox"/> 506 <input type="checkbox"/>	Hex-Chrom <input type="checkbox"/> Oil <input type="checkbox"/> Tetra <input type="checkbox"/> 8141A <input type="checkbox"/> 8151M <input type="checkbox"/> 8151A <input type="checkbox"/> PAHs <input type="checkbox"/> Metals, Total or Dissolved (See list below) <input type="checkbox"/> Cyanide <input type="checkbox"/> pH, Cond. Cl, SO ₄ , NH ₃ -N, BOD, TSS, DOC, Total-P, TKN, TOC, AOX 1650 <input type="checkbox"/> 506 <input type="checkbox"/>	REMARKS
NWC-1-31	6/6/06	1316		S									
NWC-2-31	6/6/06	1317											
NWC-3-31	6/6/06	1318											
NWC-1-32	6/6/06	0751											
NWC-2-32		0752											
NWC-3-32		0755											
NWC-1-33		0819											
NWC-2-33		0820											
NWC-3-33		0822											
NWC-1-34	▼	0849	▼	▼									
REPORT REQUIREMENTS		INVOICE INFORMATION			Circle which metals are to be analyzed:								
I. Routine Report: Method, Blank, Surrogate, as required		P.O. # 87169.00514 Bill To: John Long (GMI)			Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg								
X II. Report Dup., MS, MSD as required					Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg								
III. Data Validation Report (includes all raw data)					*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: (CIRCLE ONE)								
IV. CLP Deliverable Report					SPECIAL INSTRUCTIONS/COMMENTS: See p. 1								
V. EDD													
		Requested Report Date											
RELINQUISHED BY:		RECEIVED BY:			RELINQUISHED BY:								
<u>Za S</u> Signature Zauna Sotterwhite Printed Name		<u>R Shultz</u> Signature Robert Shultz Printed Name			<u>R. Rappo</u> Signature R. Rappo Printed Name								
Date/Time 6/6/06 0705		Date/Time 6/6/06 0720			Date/Time 6/6/06 1500								
Firm Geomatics		Firm Mc Delivery			Firm CATS								



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SR#: K0604373

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348



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SR#:

1C0604573

PAGE 12 OF 13 COC #

PROJECT NAME	NW Corner - F2D				PAGE	1	COC #											
PROJECT NUMBER	8769.005 / 4																	
PROJECT MANAGER	John Long																	
COMPANY/ADDRESS																		
CITY/STATE/ZIP																		
E-MAIL ADDRESS																		
PHONE #	FAX#																	
SAMPLER'S SIGNATURE	<i>John S.</i>																	
SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS												
						<input type="checkbox"/> Semivolatile Organics 625	<input type="checkbox"/> Volatile Organics by GC/MS 8270L	<input type="checkbox"/> Hydrocarbons 8260	<input type="checkbox"/> Gas 8021	<input type="checkbox"/> Diesel Oil	<input type="checkbox"/> Fuel Fingerprint (FIQ)	<input type="checkbox"/> PCB's 1664 HEM	<input type="checkbox"/> Aroclors 608	<input type="checkbox"/> Congeners 8081A	<input type="checkbox"/> Pesticides/Herbicides 8081A	<input type="checkbox"/> Chlorophenolics 8141A	<input type="checkbox"/> PAHs 8310	<input type="checkbox"/> PCP 1664 SGT
NWL-2-37	6/5/06	1020		S	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NWL-3-37		1021				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NWL-1-38		1024				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NWL-2-38		1030				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NWL-3-38		1032				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NWL-1-40		1054				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NWL-2-40		1100				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NWL-3-40		1105				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NWL-1-A1		1106				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NWL-2-A1		1108				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
REPORT REQUIREMENTS					INVOICE INFORMATION		Circle which metals are to be analyzed:											
<ul style="list-style-type: none"> I. Routine Report: Method Blank, Surrogate, as required <input checked="" type="checkbox"/> II. Report Dup., MS, MSD as required III. Data Validation Report (includes all raw data) IV. CLP Deliverable Report V. EDD 					<p>P.O. # <i>8769.005/4</i></p> <p>Bill To: <i>John Long</i> <i>GAS</i></p>		<p>Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg</p> <p>Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg</p>											
TURNAROUND REQUIREMENTS					REQUESTED REPORT DATE		INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: (CIRCLE ONE)											
<p>24 hr. <i>48 hr.</i></p> <p>5 Day <i>72 hr.</i></p> <p>Standard (10-15 working days)</p> <p>Provide FAX Results</p>					Requested Report Date		<p>SPECIAL INSTRUCTIONS/COMMENTS: <i>see pg 1</i></p>											
RELINQUISHED BY:			RECEIVED BY:		RELINQUISHED BY:			RECEIVED BY:										
<i>Z.S.</i> Signature <i>Tanna Satterwhite</i> Printed Name			<i>R.S.</i> Signature <i>Robert Shantz</i> Printed Name		<i>R.P.</i> Signature <i>John Long</i> Printed Name			<i>R.P.</i> Signature <i>John Long</i> Printed Name										
Date/Time 6/6/06 705			Date/Time 6/6/06 0715		Date/Time			Date/Time 6/6/06 1500										
Firm Geomatix			Firm mc delivery		Firm			Firm GAS										



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SR#: K00
13 COC #

K0604573

PROJECT NAME	NW Corner - FPP				
PROJECT NUMBER	8769.005/4				
PROJECT MANAGER	John Long				
COMPANY/ADDRESS					
CITY/STATE/ZIP					
E-MAIL ADDRESS					
PHONE #	FAX#				
SAMPLE/B'S SIGNATURE	<u>John S</u>				
SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS
NWL-3-A1	6/5/06	1110	5	1	<input type="checkbox"/> Semivolatile Organics by GC/MS <input type="checkbox"/> 625 <input type="checkbox"/> 8270 <input type="checkbox"/> 8270LL <input type="checkbox"/> Volatile Organics 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 8260 <input type="checkbox"/> 8270LL <input type="checkbox"/> Hydrocarbons Gas <input type="checkbox"/> Diesel <input type="checkbox"/> BTEX <input type="checkbox"/> Fuel Fingerprint Oil <input type="checkbox"/> NWI-HCD Screen (FCQ) <input type="checkbox"/> Oil & Grease/TPH <input type="checkbox"/> 1664 HEM <input type="checkbox"/> PCB's Aroclors <input type="checkbox"/> 1664 SGT <input type="checkbox"/> Pesticides/Congeners <input type="checkbox"/> 608 <input type="checkbox"/> Herbicides <input type="checkbox"/> 8084 <input type="checkbox"/> Chlorophenolics <input type="checkbox"/> Tri <input type="checkbox"/> Tetra <input type="checkbox"/> 8141A <input type="checkbox"/> 8151M <input type="checkbox"/> PAHs <input type="checkbox"/> PCP <input type="checkbox"/> 8310 <input type="checkbox"/> SIM <input type="checkbox"/> Metals (See list below) <input type="checkbox"/> Dissolved <input type="checkbox"/> Cyanide <input type="checkbox"/> Hex-Chrom <input type="checkbox"/> pH <input type="checkbox"/> Cond. <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> BOD <input type="checkbox"/> TSS <input type="checkbox"/> PO ₄ ²⁻ <input type="checkbox"/> F <input type="checkbox"/> NO ₂ <input type="checkbox"/> NH ₃ N <input type="checkbox"/> COD <input type="checkbox"/> TDS <input type="checkbox"/> (circle) <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> Total P <input type="checkbox"/> TKN <input type="checkbox"/> TOC, <input type="checkbox"/> TOX 9020 <input type="checkbox"/> NO ₂ -NO ₃ <input type="checkbox"/> AOX 1650 <input type="checkbox"/> 506
NWL-1-A2		1114			
NWL-2-A2		1120			
NWL-3-A2	✓	1122	✓	✓	
					REMARKS

PAS 6/5/06

REPORT REQUIREMENTS

- I. Routine Report: Method Blank, Surrogate, as required
 - II. Report Dup., MS, MSD as required
 - III. Data Validation Report (includes all raw data)
 - IV. CLP Deliverable Report
 - V. EDD

INVOICE INFORMATION

P.O. # 4769.005/A

Bill To: John Doe

Copy

TURNAROUND REQUIREMENTS

24 hr. 48 hr.

5 Day 72

Standard (10-15 working days)

Provide FAX Results

Provide FAX results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

See page 1.

[Signature] **RELINQUISHED BY:**
Signature Date/Time
Zanna Sattawalee **6/16/06** **705**
Printed Name Firm

 Signature <u>Robert J. Shockey</u> Printed Name	RECEIVED BY: 6-6-01 0715 Date/Time <u>McDelivery</u> Firm
--	--

RELINQUISHED BY:

	RECEIVED BY:
Signature Alan J. Pagan	Date/Time 6/6/1500 975
Printed Name Alan J. Pagan	File #

Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form

PC

Project/Client GEUMATRIX Service Request K06

Service Request K06

Cooler received on 6/6/6 and opened on 6/6/6 by Af

1. Were custody seals on outside of coolers? *MCD* Y *(N)*
If yes, how many and where? _____

2. Were custody seals intact? X N

3. Were signature and date present on the custody seals? X N

4. Is the shipper's airbill available and filed? If no, record airbill number: *(S)* N

5. COC#

Temperature of cooler(s) upon receipt: (°C)	<u>5.4</u>	<u>5.5</u>	<u>3.7</u>	<u>4.4</u>	<u>3.5</u>
Temperature Blank: (°C)	<u>5.1</u>	<u>2.6</u>	<u>2.1</u>	<u>N/r</u>	<u>5.8</u>

Were samples hand delivered on the same day as collection? Y N

6. Were custody papers properly filled out (ink, signed, etc.)? *(Q)* N

7. Type of packing material present FOAM, CARDBOARD, ICE

8. Did all bottles arrive in good condition (unbroken)? *(S)* N

9. Were all bottle labels complete (i.e analysis, preservation, etc.)? *(Q)* N

10. Did all bottle labels and tags agree with custody papers? *(S)* N

11. Were the correct types of bottles used for the tests indicated? *(Y)* N

12. Were all of the preserved bottles received at the lab with the appropriate pH? Y N

13. Were VOA vials checked for absence of air bubbles, and if present, noted below? *(P)* N

14. Were the 1631 Mercury bottles checked for absence of air bubbles, and if present, noted below? Y N

15. Did the bottles originate from CAS/K or a branch laboratory? Y *(D)* N

16. Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection? Y N

17. Was C12/Res negative? *(S)* N

Explain any discrepancies: _____

RESOLUTION: _____

Samples that required preservation or received out of temperature:

00019

Metals

00020

METALS

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Geomatrix Consultants, Incorporated Service Request: K0604573
Project No.: 8769.005/4
Project Name: NW Corner - FRP

Sample No.	Lab Sample ID.
NWC-1 Composite	K0604573-118
NWC-1 CompositeD	K0604573-118D
NWC-1 CompositeS	K0604573-118S
NWC-2 Composite	K0604573-119
NWC-3 Composite	K0604573-120
Method Blank	K0604573-MB

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

Signature: JG C Date: 6/13/06

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604573

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: NW Corner - FRP

Date Received: 06/06/06

Matrix: SOIL

Units: mg/kg

Basis: Dry

Sample Name: NWC-1 Composite

Lab Code: K0604573-118

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	1.91	0.38	100	6/9/06	06/13/06	1200		

Comments:

00022

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604573

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: NW Corner - FRP

Date Received: 06/06/06

Matrix: SOIL

Units: mg/kg

Basis: Dry

Sample Name: NWC-2 Composite

Lab Code: K0604573-119

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	1.71	0.34	100	6/9/06	06/13/06	181		

Comments:

00023

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604573

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: NW Corner - FRP

Date Received: 06/06/06

Matrix: SOIL

Units: mg/kg

Basis: Dry

Sample Name: NWC-3 Composite

Lab Code: K0604573-120

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	1.71	0.34	100	6/9/06	06/13/06	21.0		

Comments:

00024

METALS

-2a-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Geomatrix Consultants, Incorporated

Service Request: K0604573

Project No.: 8769.005/4

Project Name: NW Corner - FRP

ICV Source:

CCV Source: Various

Concentration Units: ug/l

Analyte	Initial Calibration			Continuing Calibration				Method
	True	Found	%R(1)	True	Found	%R(1)	Found	
Copper				25.0	25.3	101	24.9	100

METALS

- 2b -

CRDL STANDARD FOR AA AND ICP

Client: Geomatrix Consultants, Incorporated

Service Request: K0604573

Project No.: 8769.005/4

Project Name: NW Corner - FRP

Concentration Units: ug/l

Analyte	CRDL Standard for AA			CRDL Standard for ICP			
	True	Found	%R	Initial	True	Found	%R
Copper					0.20	0.28	142

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604573

Project No.: 8769.005/4

Date Collected: NA

Project Name: NW Corner - FRP

Date Received: NA

Matrix: SOIL

Units: mg/kg

Basis: Dry

Sample Name: Method Blank

Lab Code: K0604573-MB

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.10	0.02	5	6/9/06	06/13/06	0.09	B	

Comments:

00025

METALS

-2a-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Geomatrix Consultants, Incorporated

Service Request: K0604573

Project No.: 8769.005/4

Project Name: NW Corner - FRP

ICV Source: Inorganic Ventures

CCV Source: Various

Concentration Units: ug/l

Analyte	Initial Calibration			Continuing Calibration				Method
	True	Found	%R(1)	True	Found	%R(1)	Found	
Copper	12.5	12.2	98	25.0	24.9	100	25.1	100

00026

METALS

-3-

BLANKS

Client: Geomatrix Consultants, Incorporated

Service Request: K0604573

Project No.: 8769.005/4

Project Name: NW Corner - FRP

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)			3	C	Preparation Blank	C	Method
Copper	0.04	U	0.04	U	0.04	U	0.08	B		6020

00029

METALS

- 3 -

BLANKS

Client: Geomatrix Consultants, Incorporated

Service Request: K0604573

Project No.: 8769.005/4

Project Name: NW Corner - FRP

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank C	Method
			1	C	2	C	3	C		
Copper			0.05	B						6020

00030

METALS

-4-

ICP INTERFERENCE CHECK SAMPLE

Client: Geomatrix Consultants, Incorporated

Service Request: K0604573

Project No.: 8769.005/4

Project Name: NW Corner - FRP

ICP ID Number: PQ-S

ICS Source: Inorganic Ventures

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Copper			20	0.33	18.0	90		

METALS

-5a-

SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated

Service Request: K0604573

Project No.: 8769.005/4

Units: mg/kg

Project Name: NW Corner - FRP

Basis: Dry

Matrix: SOIL

Sample Name: NWC-1 Composites

Lab Code: K0604573-118S

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Copper		1340	1200	49.2	285		6020

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS

- 5b -

POST DIGEST SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated

Service Request: K0604573

Project No.: 8769.005/4

Units: ug/L

Project Name: NW Corner - FRP

Matrix: SOIL

Sample Name: NWC-1 CompositeA

Lab Code: K0604573-118A

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Copper	75-125	153		126		25.0	108	MS	

Comments: _____

00033

METALS

-6-

DUPPLICATES

Client: Geomatrix Consultants, Incorporated

Service Request: K0604573

Project No.: 8769.005/4

Units: mg/kg

Project Name: NW Corner - FRP

Basis: Dry

Matrix: SOIL

Sample Name:NWC-1 CompositeD

Lab Code: K0604573-118D

Analyte	Control Limit(%)	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Copper	30	1200		1340		11		6020

An empty field in the Control Limit column indicates the control limit is not applicable.

00034

Columbia Analytical Services

METALS

- 7 -

LABORATORY CONTROL SAMPLE

Client: Geomatrix Consultants, Incorporated

Service Request: K0604573

Project No.: 8769.005/4

Project Name: NW Corner - FRP

Aqueous LCS Source: Inorganic Ventures

Solid LCS Source: ERA Lot No. D045540

Analyte	Aqueous mg/L			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Copper				67.0	66.8	53.8	80.2	100

00035

METALS

-9-

ICP SERIAL DILUTIONS

Client: Geomatrix Consultants, Incorporated Service Request: K0604573
Project No.: 8769.005/4 Units: ug/L
Project Name: NW Corner - FRP

Sample Name: NWC-1 CompositeL

Lab Code: K0604573-118L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-	Q	Method
Copper	126		141		12	E	6020

00036

METALS

-10-

METHOD DETECTION LIMITS

Client: Geomatrix Consultants, Incorporated

Service Request: K0604573

Project No.: 8769.005/4

Project Name: NW Corner - FRP

ICP/ICP-MS ID #: PQ-S

GFAA ID #:

AA ID #:

Analyte	Mass	Back-ground	MRL (ug/L)	MDL (ug/L)	Method
Copper	65		0.20	0.04	6020

Comments

00037

METALS

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Geomatrix Consultants, Incorporated

Service Request: K0604573

Project No.: 8769.005/4

Project Name: NW Corner - FRP

ICP ID Number: PQ-S

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Copper	15.00	400.0	6020

Comments:

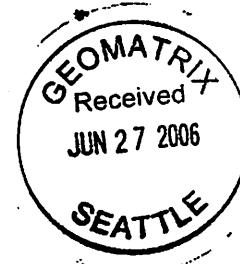
00038

June 26, 2006

Service Request No: K0604574

John Long
Geomatrix Consultants, Incorporated
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

RE: NW Corner-FRP/8769.005/4



Dear John:

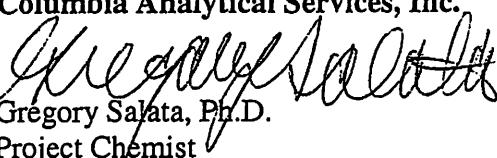
Enclosed are the results of the rush sample(s) submitted to our laboratory on June 06, 2006. For your reference, these analyses have been assigned our service request number K0604574.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3376.

Respectfully submitted,

Columbia Analytical Services, Inc.


Gregory Salata, Ph.D.
Project Chemist

GS/afs

Page 1 of 1675

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Geomatrix Consultants, Inc.	Service Request No.:	K0604574
Project:	NW Corner-FRP/8769.005/4	Date Received:	06/06/06
Sample Matrix:	Water and soil		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One water and twelve soil samples were received for analysis at Columbia Analytical Services on 06/06/06. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

No anomalies associated with the analysis of these samples were observed.

Total Metals

Matrix Spike Recovery Exceptions:

The control criteria for matrix spike recoveries of Copper and Mercury for sample NWC-1-22W are not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Relative Percent Difference Exceptions:

The Relative Percent Difference (RPD) for the replicate analysis of Copper in sample NWC-1-22W was outside the normal CAS control limits. The variability in the results is attributed to the heterogeneous character of the sample. Standard mixing techniques were used, but were not sufficient for complete homogenization of this sample.

No other anomalies associated with the analysis of these samples were observed.

Hydrocarbon Identification by EPA Method 8015B

Surrogate Exceptions:

The control criteria were exceeded for the surrogate 4-Bromofluorobenzene in samples NWC-2-42W and NWC-2-6W due to chromatographic matrix interferences. Accurate quantitations of the surrogate were not possible because the surrogate peaks were not sufficiently resolvable from petroleum product responses. No further corrective action was appropriate.

The control criteria were exceeded for the surrogate o-Terphenyl in sample NWC-2-36W due to chromatographic matrix interferences. Accurate quantitation of the surrogate was not possible because the surrogate peak was not sufficiently resolvable from petroleum product responses. No further corrective action was appropriate.

Approved by



Date 6/26/06

Calibration Range Exceedence:

The results for Gasoline Range Organics has been estimated in samples NWC2-36W, NWC-2-6W and NWC-2-7W because the concentrations exceeded the instrument calibration range. The sample extracts were not (further) diluted because the results are for screening purposes only, and as such are semiquantitative. See NWTPH-GX analyses of the samples for quantitative results.

Diesel Range Organics by EPA Method 8015B

Elevated Method Reporting Limits:

Samples NWC-2-8W, NWC2-36W, NWC-2-6W and NWC-2-7W required dilutions due to the presence of elevated levels of target analytes. The reporting limits are adjusted to reflect the dilutions.

Surrogate Exceptions:

The control criteria were exceeded for the surrogate o-Terphenyl in sample NWC-2-36W due to chromatographic matrix interferences. Accurate quantitation of the surrogate was not possible because the surrogate peak was not sufficiently resolvable from petroleum product responses. No further corrective action was appropriate.

No other anomalies associated with the analysis of these samples were observed.

Gasoline Range Organics by EPA Method 8015B

Elevated Method Reporting Limits:

Samples NWC-3-24W, NWC-2-5W, NWC-2-6W, NWC-2-7W, NWC-2-8W, NWC-2-36W, and NWC-2-42W required dilutions due to the presence of elevated levels of target analyte. The reporting limits are adjusted to reflect the dilutions.

Surrogate Exceptions:

The control criteria for the 4-Bromofluorobenzene surrogate in samples NWC-3-24W, NWC-2-5W, NWC-2-6W, NWC-2-7W, NWC-2-8W, NWC-2-36W, and NWC-2-42W are not applicable. The analyses of the samples required dilutions which resulted in surrogate concentrations below its calibration range. No further corrective action was appropriate.

No other anomalies associated with the analysis of these samples were observed.

Semivolatile Organic Compounds by EPA Method 8270C

Second Source Exceptions:

The ICV analyzed for CAL5348 had exceeded the hold time by one day. All analytes were within method specified criteria, indicating that the standard had not degraded significantly and that the ICAL was still valid. No further corrective action was appropriate.

Lab Control Sample Exceptions:

The advisory criterion was exceeded for Benzoic Acid in Laboratory Control Sample (LCS) KWG0609161-10. As per the CAS/Kelso Standard Operating Procedure (SOP) for this method, these compounds are not included in the subset of analytes used to control the analysis. The recovery information reported for these analytes is for advisory purposes only (i.e. to provide additional detail related to the performance of each individual compound). No further corrective action was required.

Relative Percent Difference Exceptions:

The Relative Percent Difference (RPD) for Benzoic Acid in the replicate Laboratory Control Sample (LCS) analyses (KWG0609161-10 and KWG0609161-11) was outside control criteria. The analyte in question was not detected in the associated field samples. The data quality is not significantly affected. No further corrective action was appropriate.

The Relative Percent Difference (RPD) for 2,4-Dinitrophenol in the replicate Laboratory Control Sample (LCS) analyses (KWG0609161-10 and KWG0609161-11) was outside control criteria. All spike recoveries for the analyte in question were within acceptance limits in the associated LCS/DLCS, indicating the analytical batch was in

Approved by BL

Date

6/26/06

control. The analyte in question was not detected in the associated field samples. The data quality is not significantly affected. No further corrective action was appropriate.

Elevated Method Reporting Limits:

The reporting limits are elevated for all samples. The sample extracts were diluted prior to instrumental analysis due to relatively high levels of non-target background components. Clean-up of the extracts was performed within the scope of the method, but did not eliminate enough of the background components to prevent dilutions. Semi-quantitative screens were performed prior to final analysis. The results of the screening indicated the need to perform dilutions.

No other anomalies associated with the analysis of these samples were observed.

Approved by

 Kelley S. Solot

Date

6/26/06

Chain of Custody Documentation



An Employee - Owned Company

CHAIN OF CUSTODY

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX: (360) 636-1068

SR#:

106046574

PAGE

1 OF 2

COC #

PROJECT NAME New Corner - FRP	PROJECT NUMBER 8769.005 / 4	PROJECT MANAGER John Long	COMPANY/ADDRESS Geomatrix 600 University St. Suite 1000 Seattle, WA 98101	CITY/STATE/ZIP Seattle, WA 98101	E-MAIL ADDRESS long@geomatrix.com	PHONE # 206-342-1779	FAX# 206-342-1761	SAMPLER'S SIGNATURE <i>[Signature]</i>																																																																																							
<table border="1"> <thead> <tr> <th>SAMPLE I.D.</th> <th>DATE</th> <th>TIME</th> <th>LAB I.D.</th> <th>MATRIX</th> <th>NUMBER OF CONTAINERS</th> <th colspan="2">REMARKS</th> </tr> </thead> <tbody> <tr><td>NWC-2-5W</td><td>6/2/06</td><td>1158</td><td>1</td><td>S</td><td>5</td><td colspan="2"></td></tr> <tr><td>NWC-2-6W</td><td>6/2/06</td><td>1305</td><td>2</td><td>S</td><td>5</td><td colspan="2"></td></tr> <tr><td>NWC-2-7W</td><td>6/2/06</td><td>1311</td><td>3</td><td>S</td><td>5</td><td colspan="2"></td></tr> <tr><td>NWC-3-24W</td><td>6/2/06</td><td>0838</td><td>4</td><td>S</td><td>1</td><td colspan="2"></td></tr> <tr><td>NWC-2-25W</td><td>6/2/06</td><td>0900</td><td>5</td><td>S</td><td>4</td><td colspan="2"></td></tr> <tr><td>NWC-1-22W</td><td>6/2/06</td><td>0948</td><td>6</td><td>S</td><td>1</td><td colspan="2">*</td></tr> <tr><td>NWC-1-2W</td><td>6/2/06</td><td>1005</td><td>7</td><td>S</td><td>1</td><td colspan="2">*</td></tr> <tr><td>NWC-2-8W</td><td>6/5/06</td><td>0809</td><td>8</td><td>S</td><td>5</td><td colspan="2">*</td></tr> <tr><td>NWC-2-26W</td><td>6/5/06</td><td>0937</td><td>9</td><td>S</td><td>5</td><td colspan="2">*</td></tr> <tr><td>NWC-1-12W</td><td>6/5/06</td><td>0946</td><td>10</td><td>S</td><td>1</td><td colspan="2">*</td></tr> </tbody> </table>								SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS		NWC-2-5W	6/2/06	1158	1	S	5			NWC-2-6W	6/2/06	1305	2	S	5			NWC-2-7W	6/2/06	1311	3	S	5			NWC-3-24W	6/2/06	0838	4	S	1			NWC-2-25W	6/2/06	0900	5	S	4			NWC-1-22W	6/2/06	0948	6	S	1	*		NWC-1-2W	6/2/06	1005	7	S	1	*		NWC-2-8W	6/5/06	0809	8	S	5	*		NWC-2-26W	6/5/06	0937	9	S	5	*		NWC-1-12W	6/5/06	0946	10	S	1	*	
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RELINQUISHED BY:		RECEIVED BY:		RELINQUISHED BY:		RECEIVED BY:																																																																																									
Signature <u>Tanna Satterwhite</u> Date/Time <u>6/6/06 0725</u> Printed Name <u>Geomatrix</u> Firm		Signature <u>P.S. Lub</u> Date/Time <u>6-6-06 0725</u> Printed Name <u>Robert Shekley Inc. Delivery</u> Firm		Signature _____ Date/Time _____ Printed Name _____ Firm _____		Signature _____ Date/Time _____ Printed Name _____ Firm _____																																																																																									



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SR# KO604574PAGE 2 OF 2 COC #

PROJECT NAME <u>NW corner-FRP</u> PROJECT NUMBER <u>8769.005/14</u> PROJECT MANAGER <u>John Long</u> COMPANY/ADDRESS <u>Geomatix</u> <u>600 University St, Suite 1020</u> <u>Seattle WA 98101</u> E-MAIL ADDRESS <u>jlong@geomatix.com</u> PHONE <u>360-342-1779</u> FAX <u>360-342-1761</u> SAMPLER'S SIGNATURE <u>Jan S</u>					NUMBER OF CONTAINERS Semivolatile Organics by GC/MS 625 <input type="checkbox"/> 8270 <input type="checkbox"/> Volatile Organics 8270 <input type="checkbox"/> 624 <input type="checkbox"/> 8260 <input type="checkbox"/> Hydrocarbons (*see below) Gas <input type="checkbox"/> Diesel <input type="checkbox"/> BTEX <input type="checkbox"/> Fuel Fingerprint (FID) Oil & Grease Screen 1664 HEM <input type="checkbox"/> PCB's <input type="checkbox"/> Aroclors <input type="checkbox"/> Pesticides/Herbicides 608 <input type="checkbox"/> 8081A <input type="checkbox"/> Chlorophenolics - 8151M <input type="checkbox"/> Tri <input type="checkbox"/> Tetra <input type="checkbox"/> PCP <input type="checkbox"/> PAHs <input type="checkbox"/> 8310 <input type="checkbox"/> SIM <input type="checkbox"/> Metals, Total or Dissolved (See list below) <input type="checkbox"/> Cyanide <input type="checkbox"/> pH, Cond, Cl, SO ₄ , PO ₄ , F, NO ₂ , NH ₃ N, COD, BOD, TSS, TDS, DOC, Total-P, TKN, TOC, TOX 9020 <input type="checkbox"/> AOX 1650 <input type="checkbox"/> 506 <input type="checkbox"/>	REMARKS * 24S 6/6/06
SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX		
<u>NWL-2-39W</u>	<u>6/5/06</u>	<u>1050</u>	<u>11 S</u>	<u>1</u>		
<u>NWC-2-42W</u>	<u>6/5/06</u>	<u>1120</u>	<u>12 S</u>	<u>5</u>		
REPORT REQUIREMENTS <ul style="list-style-type: none"> <input type="checkbox"/> I. Routine Report: Method Blank, Surrogate, as required <input checked="" type="checkbox"/> II. Report Dup., MS, MSD as required <input type="checkbox"/> III. Data Validation Report (includes all raw data) <input type="checkbox"/> IV. CLP Deliverable Report <input type="checkbox"/> V. EDD 		INVOICE INFORMATION P.O. # <u>8769.005/14</u> BILL To: <u>John Long, Geomatix</u> TURNAROUND REQUIREMENTS 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> X 5 Day <input type="checkbox"/> Standard (10-15 working days) <input type="checkbox"/> Provide FAX Results <input type="checkbox"/> Requested Report Date				
		Circle which metals are to be analyzed: Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg *INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: (CIRCLE ONE)				
		SPECIAL INSTRUCTIONS/COMMENTS: * Sample NWL-2-39W contains unknown substance. Please test small amount first. "putty-like" X TRIP BLANK (2) MP 6/6/06				
RELINQUISHED BY: Signature <u>Anna Sattenwhite</u> Printed Name <u>Anna Sattenwhite</u>		RECEIVED BY: Signature <u>Robert Shookly</u> Printed Name <u>mc Delivery</u>		RELINQUISHED BY: Signature _____ Printed Name _____		
				RECEIVED BY: Signature _____ Printed Name _____		

Greg Salata

From: John Long [jlong@geomatrix.com]
Sent: Wednesday, June 07, 2006 9:57 AM
To: Greg Salata
Cc: Larry McGaughey
Subject: FW: SKonica506060707360.pdf

Greg:

Larry would like us to resolve the ignitability relatively quickly for the NWC-1-22W, NWC-1-2W, and NWC-1-12W samples so we can get them in the queue. Also, could you please let me know what the turnaround times will be for the organic analyses, or what TA times are available?

- John

-----Original Message-----

From: Larry McGaughey
Sent: Wednesday, June 07, 2006 9:54 AM
To: John Long
Subject: RE: SKonica506060707360.pdf

John -

We should probably ask him to do the ignitability testing quickly so we can make decisions on the rest.

-----Original Message-----

From: John Long
Sent: Wednesday, June 07, 2006 9:33 AM
To: 'Greg Salata'
Cc: Larry McGaughey; Zanna Satterwhite; Patrick Hsieh
Subject: RE: SKonica506060707360.pdf

For this batch (and only this batch):

The specific metals are RCRA 8 plus Copper. Please run 8270 full suite, no SIMs.

Samples NWC-1-22W, NWC-1-2W, and NWC-1-12W contain the viscoelastic, silly-putty like, material. Please test a small portion of one of these samples following EPA Method 1030, preceding with the safety procedure outlined in section 7.0 before continuing (Method 1020 is an ASTM method, and I cannot access it without paying a fee -- I assume it also has a similar precaution; if so CAS can substitute Method 1020 instead.)

Once we have the results of this test, we will determine if other analyses are required; please hold these three samples pending analysis for the methods specified on the chain of custody.

- John

-----Original Message-----

From: Greg Salata [mailto:gsalata@kelso.caslab.com]
Sent: Wednesday, June 07, 2006 7:47 AM
To: John Long
Subject: SKonica506060707360.pdf

<<SKonica506060707360.pdf>> John,

For this batch of samples I need to know 1) the specific metals list and 2) whether the 8270 is the entire suite of analytes or just the PAHs. I wasn't sure from the QAPP. Also, this is marked for low level analysis. Do we have any idea what we are expecting in these samples?

I hate to charge for the low level if the standard will meet your needs.

Greg

Gregory Salata, Ph.D.
Project Chemist
Columbia Analytical Services
Phone: 360-577-7222
FAX: 360-636-1068
www.caslab.com

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Thank you for your cooperation and assistance.

Greg Salata

From: Zanna Satterwhite [zsatterwhite@geomatrix.com]
Sent: Monday, June 19, 2006 11:53 AM
To: Greg Salata
Cc: Larry McGaughey; John Long
Subject: FRP sample receipts - review

Greg,

I just reviewed all the confirmations of sample receipt that you sent John. They list all the samples we've submitted for this project. I noted the following issues that you may or may not already be aware of:

- K0604601 (NWC archives): please make sure you analyze selected samples for copper only.
- K0604574 (NWC suspects): please add a column for VOCs, and put an "H" for "hold" next to samples NWC-2-5W, NWC-2-6W, NWC-2-7W, NWC-2-25W, NWC-2-8W, NWC-2-36W, and NWC-2-42W. I realize the hold time is 14 days for extraction for VOCs; if Larry or John feel there is a need to extract these just in case we want to analyze, they will let you know soon, because I know we've already exceeded the hold times for some of these samples. WP-1-5W and WP-1-6W (K0604885) are the only other samples which we collected VOCs kits for but decided not to analyze – those samples expire on 6/27/06.
- K0604786 (Maint primary): make sure you analyzed both Composite 1 and Composite 1 (dup) for As, Cu, and Hg, not just As and Cu.
- K0604852 (Sulf primary): in our work plan, we specified EPA 9045B for pH analysis; is EPA 9045C a very different method?

Please make sure you hang onto any extra soil volume for all samples that we've submitted so far.

Thank you,

Zanna Satterwhite, L.G.
Geologist
Geomatrix Consultants
600 University Street, Suite 1020
Seattle, WA 98101
Ph: (206) 342-1772
Fax: (206) 342-1761
Cell: (206) 550-3781

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Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form

PC GREG

Project/Client

Geomatix

Service Request K06

Cooler received on 6/6/6 and opened on 6/6/6 by Af

1. Were custody seals on outside of coolers? If yes, how many and where? MCD Y (N)

2. Were custody seals intact? X N

3. Were signature and date present on the custody seals? X N

4. Is the shipper's airbill available and filed? If no, record airbill number: (S) N

5. COC#

Temperature of cooler(s) upon receipt: (°C)	<u>5.4</u>	<u>5.5</u>	<u>5.7</u>	<u>4.4</u>	<u>3.5</u>
Temperature Blank: (°C)	<u>5.1</u>	<u>2.6</u>	<u>2.1</u>	<u>N/p</u>	<u>5.8</u>

Were samples hand delivered on the same day as collection? Y N

6. Were custody papers properly filled out (ink, signed, etc.)? (S) N

7. Type of packing material present FOAM, CARDBOARD, ICE

8. Did all bottles arrive in good condition (unbroken)? (S) N

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? (S) N

10. Did all bottle labels and tags agree with custody papers? (S) N

11. Were the correct types of bottles used for the tests indicated? (Y) N

12. Were all of the preserved bottles received at the lab with the appropriate pH? Y N

13. Were VOA vials checked for absence of air bubbles, and if present, noted below? (S) N

14. Were the 1631 Mercury bottles checked for absence of air bubbles, and if present, noted below? Y N

15. Did the bottles originate from CAS/K or a branch laboratory? Y (D)

16. Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection? Y N

17. Was C12/Res negative? Y N

Explain any discrepancies:

RESOLUTION:

Samples that required preservation or received out of temperature:

Total Solids

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574

Total Solids

Prep Method: NONE Units: PERCENT
Analysis Method: 160.3M Basis: Wet
Test Notes:

Sample Name	Lab Code	Date Collected	Date Received	Date Analyzed	Result	Result Notes
NWC-2-5W	K0604574-001	06/02/2006	06/06/2006	06/07/2006	76.3	
NWC-2-6W	K0604574-002	06/02/2006	06/06/2006	06/07/2006	73.4	
NWC-2-7W	K0604574-003	06/02/2006	06/06/2006	06/07/2006	79.8	
NWC-3-24W	K0604574-004	06/02/2006	06/06/2006	06/07/2006	81.4	
NWC-1-22W	K0604574-006	06/02/2006	06/06/2006	06/07/2006	82.7	
NWC-1-2W	K0604574-007	06/02/2006	06/06/2006	06/07/2006	79.8	
NWC-2-8W	K0604574-008	06/05/2006	06/06/2006	06/07/2006	80.7	
NWC-2-36W	K0604574-009	06/05/2006	06/06/2006	06/07/2006	72.9	
NWC-1-12W	K0604574-010	06/05/2006	06/06/2006	06/07/2006	86.9	
NWC-2-39W	K0604574-011	06/05/2006	06/06/2006	06/07/2006	83.8	
NWC-2-42W	K0604574-012	06/05/2006	06/06/2006	06/07/2006	82.6	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Collected: 06/02/2006
Date Received: 06/06/2006
Date Analyzed: 06/07/2006

Duplicate Sample Summary Total Solids

Prep Method: NONE **Analysis Method:** 160.3M **Units:** PERCENT
Basis: Wet

Sample Name	Lab Code	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
NWC-2-5W	K0604574-001	76.3	76.1	76.2	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Solid fuel

Service Request: K0604574
 Date Collected: 06/05/2006
 Date Received: 06/06/2006
 Date Analyzed: 06/07/2006

Duplicate Sample Summary
Total Solids

Prep Method:	NONE				Units: PERCENT
Analysis Method:	160.3M				Basis: Wet
Test Notes:					
Sample Name	Lab Code	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference
NWC-1-12W	K0604574-010	86.9	87.3	87.1	<1

COLUMBIA ANALYTICAL SERVICES, INC.

EPA Method 160.3 - Total Solids

Group ID:	KWG0609322	Reviewed By:	<i>[Signature]</i>
Analyst:	RMcKee		
Date Acquired:	06/07/2006 17:38	Oven TempStart:	104 DEG C
Date Completed:	06/08/2006 11:09	Oven TempEnd:	104 DEG C

#	Lab Code	Client ID	Matrix	Tare	Tare+Wet	Tare+Dry	% Solids	QC Ref Sample	Comments
1	K0602878-006	G-5	SEDIMENT	1.2168g	6.6251g	2.5565g	24.8		
2	K0602878-009	M-9	SEDIMENT	1.2418g	4.1092g	2.0471g	28.1		
3	K0603851-001	005	SOLID FUEL	1.24g	2.67g	2.5373g	90.7		Air Dried & Ground
4	K0603917-001	Paperboard	PAPERBOA	1.24g	5.21g	5.01g	95.0		
5	K0604252-008	Composite	PAPERBOA	1.24g	3.04g	2.94g	94.4		
6	K0604538-001	Morton Boiler Ash	ASH	1.24g	4.79g	2.96g	48.5		
7	K0604553-001	Rose Drain	SEDIMENT	1.24g	8.49g	6.16g	67.9		
8	K0604553-003	Central Drain	SEDIMENT	1.24g	13.48g	10.67g	77.0		
9	K0604553-005	Fig Drain	SEDIMENT	1.25g	9.23g	6.34g	63.8		
10	K0604553-006	New River @ Forresor	SEDIMENT	1.23g	10.62g	8.12g	73.4		
11	K0604553-007	New River @ Horley	SEDIMENT	1.25g	7.95g	5.89g	69.3		
12	K0604553-008	Alamo R. @ Worthington	SEDIMENT	1.24g	11.77g	8.72g	71.0		
13	K0604553-011	Worthington Pond Sed	SEDIMENT	1.24g	9.11g	7.28g	76.7		
14	K0604553-013	Alamo R @ Harris Sed	SEDIMENT	1.24g	7.88g	6.04g	72.3		
15	K0604553-014	Alamo R. @ Rutherford	SEDIMENT	1.24g	8.57g	6.36g	69.8		
16	K0604573-118	NWC-1 Composite	SOIL	1.24g	15.75g	14.18g	89.2		As Received
17	K0604573-119	NWC-2 Composite	SOIL	1.24g	25.19g	20.14g	78.9		As Received
18	K0604573-120	NWC-3 Composite	SOIL	1.24g	10.86g	8.73g	77.9		As Received
19	K0604574-001	NWC-2-5W	SOIL	1.25g	10.12g	8.02g	76.3		
20	K0604574-002	NWC-2-6W	SOIL	1.25g	7.07g	5.52g	73.4		
21	K0604574-003	NWC-2-7W	SOIL	1.23g	12.65g	10.34g	79.8		
22	K0604574-004	NWC-3-24W	SOIL	1.24g	8.12g	6.84g	81.4		
23	K0604574-006	NWC-1-22W	SOIL	1.24g	6.67g	5.73g	82.7		
24	K0604574-007	NWC-1-2W	SOIL	1.23g	7.77g	6.45g	79.8		

Group ID:	KWG0609322	Reviewed By:	<i>R</i>
Analyst:	RMcKee	Date Reviewed:	<i>6/18/06</i>
Date Acquired:	06/07/2006 17:38	Oven TempStart:	104 DEG C
Date Completed:	06/08/2006 11:09	Oven TempEnd:	104 DEG C

#	Lab Code	Client ID	Matrix	Tare	Tare+Wet	Tare+Dry	% Solids	QC Ref Sample	Comments
25	K0604574-008	NWC-2-8W	SOIL	1.25g	7.27g	6.11g	80.7		
26	K0604574-009	NWC-2-36W	SOIL	1.23g	13.68g	10.30g	72.9		
27	K0604574-010	NWC-1-12W	SOIL	1.23g	9.40g	8.33g	86.9		
28	K0604574-011	NWC-2-39W	SOIL	1.25g	10.42g	8.93g	83.8		
29	K0604574-012	NWC-2-42W	SOIL	1.24g	8.90g	7.57g	82.6		
30	K0604597-001	Feed Belt	SOLID FUEL	10.24g	68.45g	38.25g	48.1		As Received
31	K0604597-002	Dewatered Sludge	SOLID FUEL	10.46g	63.16g	28.11g	33.5		As Received
32	K0604598-001	YRLLC Cleanup Fuel	SOLID FUEL	10.43g	123.12g	80.51g	62.2		As Received
33	KWG0609322-1	Duplicate Client Sample	SOLID FUEL	1.2412g	9.0974g	3.2470g	25.5	K0602878-006	
34	KWG0609322-2	Duplicate Client Sample	SOIL	1.24g	11.23g	8.02g	67.9	K0604553-001	
35	KWG0609322-3	Duplicate Client Sample	SOIL	1.24g	10.02g	7.92g	76.1	K0604574-001	
36	KWG0609322-4	Duplicate Client Sample	SOLID FUEL	1.25g	10.38g	9.22g	87.3	K0604574-010	
37	KWG0609322-5	Duplicate Client Sample	SOIL	1.25g	15.48g	12.29g	77.6	K0604573-120	

20

General Chemistry Parameters

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Geomatrix Consultants, Incorporated
Project Name : NW Corner-FRP
Project Number : 8769.005/4
Sample Matrix : SOIL

Service Request : K0604574
Date Collected : 06/02-05/06
Date Received : 06/06/06

Flashpoint

Analysis Method : 1020

Units : DEG C

Test Notes :

Basis : NA

Sample Name	Lab Code	MRL	Dilution Factor	Date Analyzed	Result	Result Notes
NWC-1-22W	K0604574-006	-	1	06/10/06	>110	
NWC-1-2W	K0604574-007	-	1	06/10/06	>110	
NWC-1-12W	K0604574-010	-	1	06/10/06	>110	
Method Blank	K0604574-MB	-	1	06/10/06	>110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Geomatrix Consultants, Incorporated
Project Name : NW Corner-FRP
Project Number : 8769.005/4
Sample Matrix : SOIL

Service Request : K0604574
Date Collected : 06/02/06
Date Received : 06/06/06
Date Prepared : NA
Date Analyzed : 06/10/06

Duplicate Summary
Inorganic Parameters

Sample Name : NWC-1-22W
Lab Code : K0604574-006DUP
Test Notes :

Units : DEG C
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Relative Percent Difference	Result Notes
Flashpoint		1020	-	>110	>110	>110 -

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Geomatrix Consultants, Incorporated
Project Name : NW Corner-FRP
Project Number : 8769.005/4
Sample Matrix : SOIL

Service Request : K0604574
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 06/10/06

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K0604574-LCS
Test Notes :

Units : DEG C
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery	Acceptance Limits	Result Notes
Flashpoint	None	1020	26	27	96		85-115	

Work Request # K4574

Original
Tier: III

Date Analyzed: 6/10/06

Analyst: SP

Analysis: F. Point

DATA QUALITY REPORT INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate? yes/no/NA
2. Holding times met for all analyses and for all samples? yes/no/NA
3. Are calculations correct? yes/no/NA
4. Is the reporting basis correct? (Dry Weight) yes/no/NA
5. All quality control criteria met?
 - a. Is the calibration curve correlation coefficient ≥ 0.995 ? yes/no/NA
 - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? yes/no/NA
 - c. Are ICVs, CCVs, and CCBs all within acceptance limits? yes/no/NA
 - d. Are results for methods blanks all ND? yes/no/NA
 - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) yes/no/NA
 - f. Are all exceptions explained? yes/no/NA
6. Are all service requests that apply attached? yes/no/NA
7. Are all samples labelled correctly? yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample) yes/no/NA
9. Are detection limits and units reported correctly? yes/no/NA
10. Are proper Analysis/Extraction stickers included on report? yes/no/NA
11. Is the unused space on the benchsheet crossed out? yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#) yes/no/NA

COMMENTS:

K4574 - Rush due 6/13

Final Approved by: _____ PL Date: 6/12/06
DQREPORT

Service Request: K4574

Analysis For: Flashpoint

Method: EPA 1020

p-xylene STD 1

°C	Yes	No
20		X
25		X
30	X	
35		
40		
45		
50		
55		
60		
65		
70		
75		
80		
85		
90		
95		
100		
105		
110		

1-butanol STD 2

°C	Yes	No
20		
25		X
30		X
35		X
40	X	
45		
50		
55		
60		
65		
70		
75		
80		
85		
90		
95		
100		
105		
110		

DI Water Blank

°C	Yes	No
20		
25		
30		
35		
40		
45		
50		
55		
60		
65		
70		
75		
80		
85		
90	X	
95	X	
100	X	
105	X	
110	X	

Sample #: K4574-6

°C	Yes	No
20		
25		
30		
35		
40		
45		
50		
55		
60		
65		
70		
75		
80		
85		
90	X	
95	X	
100	X	
105	X	
110	X	

Sample #: K4574-6D

°C	Yes	No
20		
25		
30		
35		
40		
45		
50		
55		
60		
65		
70		
75		
80		
85		
90	X	
95	X	
100	X	
105	X	
110	X	

Verification

26	X
27	X
28	
29	
30	

Obs. Flash = 27

Flashpoint = 27

Verification

36	X
37	X
38	X
39	
40	

Obs. Flash = 38

Flashpoint = 38

Verification

110	
110	

Obs. Flash = >110

Flashpoint = >110

Verification

110	
110	

Obs. Flash = >110

Flashpoint = >110

Standard 1: p-xylene T.V. = 25.5 °C ± 0.5 °C

Standard 2: 1-butanol T.V. = 37.0 °C ± 1.0 °C

Actual Flashpoint (°C) = Observed flashpoint + 0.03 (760 - Avg. barometric pressure (mm Hg))

Comments:

K4574-6+6D X = >110 RPD = <1

Lot #: A07444

Lot #: B21B05

%REC= 106 -

%REC= 103 -

Barometric Pressure

Beginning : 760

End : 760

Analyst: SR

Reviewed By: 101

Date: 6/10/06

Date:

Time: 0015

6/12/06

Columbia Analytical Services

Service Request: _____

Analysis For: Flashpoint

Method: EPA 1020

Sample #: K4574-7

Sample #: K4574-10

Sample #:

EPA 1020

°C	Yes	No
20		
25		
30		
35		
40		
45		
50		
55		
60		
65		
70		
75		
80		
85		
90		X
95		X
100		X
105		X
110		X
Verification		
<hr/>		

Comments:

Analyst: SP	Date: 6/10/06	Time: 0615
Reviewed By: T.J.	Date: 6/12/06	

Metals

METALS

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Geomatrix Consultants, Incorporated

Service Request: K0604574

Project No.: 8769.005/4

Project Name: NW Corner-FRP

Sample No.	Lab Sample ID.
NWC-1-22W	K0604574-006
NWC-1-22WD	K0604574-006D
NWC-1-22WS	K0604574-006S
NWC-1-2W	K0604574-007
NWC-1-12W	K0604574-010
NWC-2-39W	K0604574-011
Method Blank	K0604574-MB

Were ICP interelement corrections applied?

Yes/No YES

Were ICP background corrections applied?

Yes/No YES

If yes-were raw data generated before application of background corrections?

Yes/No NO

Comments:

Signature: JES Cu

Date: 4/14/06

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604574

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: NW Corner-FRP

Date Received: 06/06/06

Matrix: SOIL

Units: MG/KG

Basis: Dry

Sample Name: NWC-1-22W

Lab Code: K0604574-006

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020	0.61	0.06	5	6/7/06	6/12/06	3.63		
Barium	6020	0.06	0.04	5	6/7/06	6/12/06	46.2		
Cadmium	6020	0.061	0.024	5	6/7/06	6/12/06	0.160		
Chromium	6020	0.24	0.04	5	6/7/06	6/12/06	14.4		
Copper	6020	2.42	0.48	100	6/7/06	6/13/06	2150	*	
Lead	6020	0.06	0.02	5	6/7/06	6/12/06	23.3		
Mercury	7471A	0.097	0.004	5	6/13/06	6/14/06	1.910		
Selenium	6020	1.2	0.1	5	6/7/06	6/12/06	0.3	B	
Silver	200.8	0.024	0.005	5	6/7/06	6/13/06	0.129		

% Solids: 82.7

Comments:

T61
7/14/06

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604574

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: NW Corner-FRP

Date Received: 06/06/06

Matrix: SOIL

Units: MG/KG

Basis: Dry

Sample Name: NWC-1-2W

Lab Code: K0604574-007

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020	1.04	0.10	10	6/7/06	6/12/06	3.90		
Barium	6020	0.10	0.06	10	6/7/06	6/12/06	65.7		
Cadmium	6020	0.104	0.042	10	6/7/06	6/12/06	0.181		
Chromium	6020	0.42	0.06	10	6/7/06	6/12/06	14.4		
Copper	6020	2.09	0.42	100	6/7/06	6/13/06	696	*	
Lead	6020	0.10	0.04	10	6/7/06	6/12/06	13.0		
Mercury	7471A	0.020	0.001	1	6/13/06	6/14/06	0.787		
Selenium	6020	2.1	0.2	10	6/7/06	6/12/06	0.8	B	
Silver	200.8	0.021	0.004	5	6/7/06	6/13/06	0.204		

J

% Solids: 79.8

Comments:

TG
3/25/06

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604574

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: NW Corner-FRP

Date Received: 06/06/06

Matrix: SOIL

Units: MG/KG

Basis: Dry

Sample Name: NWC-1-12W

Lab Code: K0604574-010

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020	0.57	0.06	5	6/7/06	6/12/06	4.53		
Barium	6020	0.06	0.03	5	6/7/06	6/12/06	78.2		
Cadmium	6020	0.057	0.023	5	6/7/06	6/12/06	0.234		
Chromium	6020	0.23	0.03	5	6/7/06	6/12/06	15.1		
Copper	6020	2.28	0.46	100	6/7/06	6/13/06	3290	*	
Lead	6020	0.06	0.02	5	6/7/06	6/12/06	21.8		
Mercury	7471A	0.020	0.001	1	6/13/06	6/14/06	0.564		
Selenium	6020	1.1	0.1	5	6/7/06	6/12/06	0.4	B	
Silver	200.8	0.023	0.005	5	6/7/06	6/13/06	0.219		

% Solids: 86.9

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604574

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: NW Corner-FRP

Date Received: 06/06/06

Matrix: SOIL

Units: MG/KG

Basis: Dry

Sample Name: NWC-2-39W

Lab Code: K0604574-011

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020	0.60	0.06	5	6/7/06	6/12/06	2.32		
Barium	6020	0.06	0.04	5	6/7/06	6/12/06	169		
Cadmium	6020	0.060	0.024	5	6/7/06	6/12/06	0.288		
Chromium	6020	0.24	0.04	5	6/7/06	6/12/06	14.5		
Copper	6020	23.90	4.77	1000	6/7/06	6/13/06	18200	*	
Lead	6020	0.06	0.02	5	6/7/06	6/12/06	28.2		
Mercury	7471A	0.020	0.001	1	6/13/06	6/14/06	0.745		
Selenium	6020	1.2	0.1	5	6/7/06	6/12/06	0.3	B	
Silver	200.8	0.024	0.005	5	6/7/06	6/13/06	0.099		

% Solids: 83.8

Comments:

TG
7/28/06

Columbia Analytical Services**METALS****-1-****INORGANIC ANALYSIS DATA SHEET**Client: **Geomatrix Consultants, Incorporated**Service Request: **K0604574**Project No.: **8769.005/4**

Date Collected:

Project Name: **NW Corner-FRP**

Date Received:

Matrix: **SOIL**Units: **MG/KG**Basis: **Dry**

Sample Name: Method Blank

Lab Code: **K0604574-MB**

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020	0.50	0.05	5	6/7/06	6/12/06	0.05	U	
Barium	6020	0.05	0.03	5	6/7/06	6/12/06	0.03	U	
Cadmium	6020	0.050	0.020	5	6/7/06	6/12/06	0.020	U	
Chromium	6020	0.20	0.03	5	6/7/06	6/12/06	0.05	B	
Copper	6020	0.10	0.02	5	6/7/06	6/13/06	0.06	B	*
Lead	6020	0.05	0.02	5	6/7/06	6/12/06	0.02	U	
Mercury	7471A	0.020	0.001	1	6/13/06	6/14/06	0.001	U	
Selenium	6020	1.0	0.1	5	6/7/06	6/12/06	0.1	U	
Silver	200.8	0.020	0.004	5	6/7/06	6/13/06	0.004	U	

% Solids: **100.0**

Comments:

METALS

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Geomatrix Consultants, Incorporated

Service Request: K0604574

Project No.: 8769.005/4

Project Name: NW Corner-FRP

ICV Source: Inorganic Ventures

CCV Source: Various

Concentration Units: ug/I

Analyte	Initial Calibration			Continuing Calibration				Method	
	True	Found	%R(1)	True	Found	%R(1)	Found		
Arsenic	25.0	25.6	102	25.0	25.1	100	24.9	100	6020
Barium	100	101	101	25.0	24.8	99	25.1	100	6020
Cadmium	12.5	12.8	102	25.0	24.9	99	25.1	100	6020
Chromium	10.0	10.1	101	25.0	25.2	101	25.0	100	6020
Copper	12.5	12.2	98	25.0	24.9	100	25.1	100	6020
Lead	25.0	25.3	101	25.0	24.9	100	24.6	98	6020
Mercury	5.0	5.26	105	5.0	4.82	96	5.02	100	7471A
Selenium	25.0	25.7	103	25.0	25.0	100	24.0	96	6020
Silver	12.5	12.0	96	25.0	25.0	100	25.1	100	200.8

METALS

-2a-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Geomatrix Consultants, Incorporated

Service Request: K0604574

Project No.: 8769.005/4

Project Name: NW Corner-FRP

ICV Source:

CCV Source: Various

Concentration Units: ug/I

Analyte	Initial Calibration			Continuing Calibration				Method
	True	Found	%R(1)	True	Found	%R(1)	Found	
Arsenic				25.0	25.0	100	24.0	96
Barium				25.0	25.1	100	24.5	98
Cadmium				25.0	25.0	100	25.0	100
Chromium				25.0	25.2	101	24.3	97
Copper				25.0	25.3	101	24.9	100
Lead				25.0	25.3	101	25.2	101
Mercury				5.0	5.07	101		
Selenium				25.0	25.8	103	24.2	97
Silver				25.0	25.3	101	25.0	100
								200.8

METALS

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Geomatrix Consultants, Incorporated

Service Request: K0604574

Project No.: 8769.005/4

Project Name: NW Corner-FRP

ICV Source:

CCV Source: Various

Concentration Units: ug/l

Analyte	Initial Calibration			Continuing Calibration				Method
	True	Found	%R(1)	True	Found	%R(1)	Found	
Silver				25.0	25.0	100		200.8

Columbia Analytical Services**METALS****- 2b -****CRDL STANDARD FOR AA AND ICP**

Client: Geomatrix Consultants, Incorporated

Service Request: K0604574

Project No.: 8769.005/4

Project Name: NW Corner-FRP

Concentration Units: ug/l

Analyte	CRDL Standard for AA			CRDL Standard for ICP			
	True	Found	%R	Initial	True	Found	%R
Arsenic				1.0	1.03	103	
Barium				0.10	0.10	96	
Cadmium				0.04	0.018	45	
Chromium				0.40	0.41	103	
Copper				0.20	0.28	142	
Lead				0.04	0.04	111	
Mercury	0.20	0.170	85				
Selenium				2.0	1.99	100	
Silver				0.04	0.039	97	

Columbia Analytical Services**METALS**

- 3 -

BLANKS

Client: Geomatrix Consultants, Incorporated

Service Request: K0604574

Project No.: 8769.005/4

Project Name: NW Corner-FRP

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)						Preparation Blank C	Method	
		1	C	2	C	3	C			
Arsenic	0.10	U	0.10	U	0.10	U	0.10	U		6020
Barium	0.06	U	0.06	U	0.06	U	0.06	U		6020
Cadmium	0.040	U	0.040	U	0.04	U	0.040	U		6020
Chromium	0.06	U	0.06	U	0.06	U	0.06	U		6020
Copper	0.04	U	0.04	U	0.04	U	0.08	B		6020
Lead	0.04	U	0.04	U	0.04	U	0.04	U		6020
Mercury	0.008	U	0.008	U	0.008	U	0.008	U		7471A
Selenium	0.2	U	0.2	U	0.2	U	0.2	U		6020
Silver	0.015	B	0.008	U	0.008	U	0.008	U		200.8

METALS

-3-

BLANKS

Client: Geomatrix Consultants, Incorporated

Service Request: K0604574

Project No.: 8769.005/4

Project Name: NW Corner-FRP

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	Method
			1	C	2	C	3	C		
Arsenic			0.10	U						6020
Barium			0.06	U						6020
Cadmium			0.040	U						6020
Chromium			0.06	U						6020
Copper			0.05	B						6020
Lead			0.04	U						6020
Selenium			0.2	U						6020
Silver			0.008	U	0.008	U				200.8

Columbia Analytical Services

METALS

-4-

ICP INTERFERENCE CHECK SAMPLE

Client: Geomatrix Consultants, Incorporated

Service Request: K0604574

Project No.: 8769.005/4

Project Name: NW Corner-FRP

ICP ID Number: Excell ICPMS

ICS Source: Inorganic Ventures

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Silver			20	0.017	17.4	87		

Columbia Analytical Services**METALS****-4-****ICP INTERFERENCE CHECK SAMPLE**

Client: Geomatrix Consultants, Incorporated

Service Request: K0604574

Project No.: 8769.005/4

Project Name: NW Corner-FRP

ICP ID Number: PQ-S

ICS Source: Inorganic Ventures

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic		20	0.11	18.0	90			
Barium			-0.01	-0.01				
Cadmium		20	0.394	20.3	102			
Chromium		20	0.25	20.2	101			
Copper		20	0.33	18.0	90			
Lead			0.23	0.19				
Selenium			0.6	0.9				

METALS

- 5a -

SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated

Service Request: K0604574

Project No.: 8769.005/4

Units: mg/kg

Project Name: NW Corner-FRP

Basis: Dry

Matrix: SOIL

% Solids: 82.7

Sample Name: NWC-1-22WS

Lab Code: K0604574-006S

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Arsenic	74 - 120	119	3.63	121	95		6020
Barium	79 - 117	537	46.2	484	101		6020
Cadmium	63 - 136	12.1	0.160	12.1	98		6020
Chromium	53 - 147	60.7	14.4	48.4	96		6020
Copper		5940	2150	60.5	6275		6020
Lead	66 - 134	155	23.3	121	108		6020
Mercury		2.630	1.910	0.486	148		7471A
Selenium	74 - 119	109	0.3 B	121	90		6020
Silver	83 - 107	11.4	0.129	12.1	93		200.8

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS**-5b-****POST DIGEST SPIKE SAMPLE RECOVERY**

Client: Geomatrix Consultants, Incorporated

Service Request: K0604574

Project No.: 8769.005/4

Units: ug/L

Project Name: NW Corner-FRP

Matrix: SOIL

Sample Name:

NWC-1-22WA

Lab Code: K0604574-006A

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75-125	22.5		6.00		20.0	83	MS	
Barium	75-125	101		76.4		20.0	123	MS	
Cadmium	75-125	18.5		0.264		20.0	91	MS	
Chromium	75-125	42.8		23.8		20.0	95	MS	
Copper	75-125	198		178		20.0	100	MS	
Lead	75-125	60.1		38.5		20.0	108	MS	
Selenium	75-125	16.3		0.5	B	20.0	79	MS	
Silver	75-125	23.8		0.213		25.0	94	MS	

Comments: _____

METALS

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DUPLICATES

Client: Geomatrix Consultants, Incorporated Service Request: K0604574
 Project No.: 8769.005/4 Units: mg/kg
 Project Name: NW Corner-FRP Basis: Dry
 Matrix: SOIL % Solids: 82.7

Sample Name:NWC-1-22WD

Lab Code: K0604574-006D

Analyte	Control Limit(%)	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Arsenic	30	3.63		4.34		18		6020
Barium	30	46.2		49.6		7		6020
Cadmium		0.160		0.207		25		6020
Chromium	30	14.4		16.9		16		6020
Copper	30	2150		2940		31 *		6020
Lead	30	23.3		27.9		18		6020
Mercury	30	1.910		1.630		16		7471A
Selenium		0.3	B	0.4	B	9		6020
Silver	30	0.129		0.146		12		200.8

An empty field in the Control Limit column indicates the control limit is not applicable.

Columbia Analytical Services

METALS

-7-

LABORATORY CONTROL SAMPLE

Client: Geomatrix Consultants, Incorporated

Service Request: K0604574

Project No.: 8769.005/4

Project Name: NW Corner-FRP

Aqueous LCS Source: Inorganic Ventures

Solid LCS Source: ERA Lot No. D045540

Analyte	Aqueous mg/L			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Arsenic				146	137	112	180	94
Barium				339	356	266	412	105
Cadmium				92.8	93.5	73.9	112	101
Chromium				172	172	135	209	100
Copper				67.0	66.2	53.8	80.2	99
Lead				67.5	67.7	53.1	81.9	100
Mercury				1.77	1.88	1.21	2.34	106
Selenium				70.5	72.3	53.3	87.7	103
Silver				93.0	86.1	57.0	129	93

Columbia Analytical Services

METALS

-9-

ICP SERIAL DILUTIONS

Client: Geomatrix Consultants, Incorporated Service Request: K0604574
Project No.: 8769.005/4 Units: ug/L
Project Name: NW Corner-FRP

Sample Name: NWC-1-22WL

Lab Code: K0604574-006L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ-	Q	Method
Arsenic	6.00	8.03	34	E	6020
Barium	76.4	89.5	17	E	6020
Cadmium	0.264	0.231B	12		6020
Chromium	23.8	30.0	26	E	6020
Copper	178	172	3		6020
Lead	38.5	46.3	20	E	6020
Selenium	0.5B	1.00U			6020
Silver	0.213	0.225	5		200.8

Columbia Analytical Services

METALS

-10-

METHOD DETECTION LIMITS

Client: Geomatrix Consultants, Incorporated

Service Request: K0604574

Project No.: 8769.005/4

Project Name: NW Corner-FRP

ICP/ICP-MS ID #:

GFAA ID #:

AA ID #: CETAC-1

Analyte	Wave-length	Back-ground	MRL (ug/L)	MDL (ug/L)	Method
Mercury	253.70	BD	0.200	0.008	7471A

Comments

METALS

-10-

METHOD DETECTION LIMITS

Client: Geomatrix Consultants, Incorporated

Service Request: K0604574

Project No.: 8769.005/4

Project Name: NW Corner-FRP

ICP/ICP-MS ID #: Excell ICPMS

GFAA ID #:

AA ID #:

Analyte	Mass	Back-ground	MRL (ug/L)	MDL (ug/L)	Method
Silver	107		0.040	0.008	200.8

Comments

METALS

-10-

METHOD DETECTION LIMITS

Client: Geomatrix Consultants, Incorporated

Service Request: K0604574

Project No.: 8769.005/4

Project Name: NW Corner-FRP

ICP/ICP-MS ID #: PQ-S

GFAA ID #:

AA ID #:

Analyte	Mass	Back-ground	MRL (ug/L)	MDL (ug/L)	Method
Arsenic	75		1.00	0.10	6020
Barium	137		0.10	0.06	6020
Cadmium	111		0.100	0.040	6020
Chromium	52		0.40	0.06	6020
Copper	65		0.20	0.04	6020
Lead	208		0.10	0.04	6020
Selenium	77		2.0	0.2	6020

Comments

Columbia Analytical Services

METALS

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Geomatrix Consultants, Incorporated Service Request: K0604574
Project No.: 8769.005/4
Project Name: NW Corner-FRP

ICP ID Number: Excell ICPMS

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Silver	15.00	300.0	200.8

Comments:

METALS

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Geomatrix Consultants, Incorporated

Service Request: K0604574

Project No.: 8769.005/4

Project Name: NW Corner-FRP

ICP ID Number: PQ-S

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Arsenic	15.00	200.0	6020
Barium	15.00	500.0	6020
Cadmium	15.00	300.0	6020
Chromium	15.00	200.0	6020
Copper	15.00	400.0	6020
Lead	15.00	400.0	6020
Selenium	15.00	200.0	6020

Comments:

Organic Analysis:
Diesel and Residual Range Organics

Summary Package

Sample and QC Results

COLUMBIA ANALYTICAL SERVICES, INC.Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4

Service Request: K0604574

**Cover Page - Organic Analysis Data Package
Diesel and Residual Range Organics**

Sample Name	Lab Code	Date Collected	Date Received
NWC-2-5W	K0604574-001	06/02/2006	06/06/2006
NWC-2-6W	K0604574-002	06/02/2006	06/06/2006
NWC-2-7W	K0604574-003	06/02/2006	06/06/2006
NWC-2-8W	K0604574-008	06/05/2006	06/06/2006
NWC-2-36W	K0604574-009	06/05/2006	06/06/2006
NWC-2-42W	K0604574-012	06/05/2006	06/06/2006
NWC-2-42W	KWG0609367-1	06/05/2006	06/06/2006

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: M. CuluName: Mike EricksonDate: 6/21/06Title: Supervisor

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Collected: 06/02/2006
Date Received: 06/06/2006

Diesel and Residual Range Organics

Sample Name:	NWC-2-5W	Units:	mg/Kg
Lab Code:	K0604574-001	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	120 Z	33	3.6	1	06/08/06	06/09/06	KWG0609367	
Residual Range Organics (RRO)	57 J	130	5.9	1	06/08/06	06/09/06	KWG0609367	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	78	50-150	06/09/06	Acceptable
n-Triacontane	81	50-150	06/09/06	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Collected: 06/02/2006
Date Received: 06/06/2006

Diesel and Residual Range Organics

Sample Name: NWC-2-6W **Units:** mg/Kg
Lab Code: K0604574-002 **Basis:** Dry
Extraction Method: EPA 3550B **Level:** Low
Analysis Method: NWTPH-Dx

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	1800	DZ	170	19	5	06/08/06	06/10/06	KWG0609367	
Residual Range Organics (RRO)	470	Z	140	6.2	1	06/08/06	06/09/06	KWG0609367	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	62	50-150	06/09/06	Acceptable
n-Triacontane	65	50-150	06/09/06	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Collected: 06/02/2006
Date Received: 06/06/2006

Diesel and Residual Range Organics

Sample Name: NWC-2-7W **Units:** mg/Kg
Lab Code: K0604574-003 **Basis:** Dry
Extraction Method: EPA 3550B **Level:** Low
Analysis Method: NWTPH-Dx

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	1400	DZ	160	17	5	06/08/06	06/10/06	KWG0609367	
Residual Range Organics (RRO)	380	Z	130	5.7	1	06/08/06	06/09/06	KWG0609367	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
c-Terphenyl	75	50-150	06/09/06	Acceptable
n-Triacontane	84	50-150	06/09/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K0604574
 Date Collected: 06/05/2006
 Date Received: 06/06/2006

Diesel and Residual Range Organics

Sample Name:	NWC-2-8W	Units:	mg/Kg
Lab Code:	K0604574-008	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	820	DZ	160	17	5	06/08/06	06/12/06	KWG0609367	
Residual Range Organics (RRO)	130	Z	130	5.6	1	06/08/06	06/10/06	KWG0609367	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	86	50-150	06/10/06	Acceptable
n-Triacontane	80	50-150	06/10/06	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K0604574
 Date Collected: 06/05/2006
 Date Received: 06/06/2006

Diesel and Residual Range Organics

Sample Name: NWC-2-36W Units: mg/Kg
 Lab Code: K0604574-009 Basis: Dry
 Extraction Method: EPA 3550B Level: Low
 Analysis Method: NWTPH-Dx

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	2100	DZ	170	19	5	06/08/06	06/10/06	KWG0609367	
Residual Range Organics (RRO)	360	Z	140	6.2	1	06/08/06	06/12/06	KWG0609367	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	49	50-150	06/12/06	Outside Control Limits
n-Triacontane	63	50-150	06/12/06	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Collected: 06/05/2006
Date Received: 06/06/2006

Diesel and Residual Range Organics

Sample Name: NWC-2-42W **Units:** mg/Kg
Lab Code: K0604574-012 **Basis:** Dry
Extraction Method: EPA 3550B **Level:** Low
Analysis Method: NWTPH-Dx

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	1500	DZ	150	17	5	06/08/06	06/10/06	KWG0609367	
Residual Range Organics (RRO)	210	Z	120	5.5	1	06/08/06	06/12/06	KWG0609367	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	95	50-150	06/12/06	Acceptable
n-Triacontane	74	50-150	06/12/06	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K0604574
 Date Collected: NA
 Date Received: NA

Diesel and Residual Range Organics

Sample Name: Method Blank Units: mg/Kg
 Lab Code: KWG0609367-3 Basis: Dry
 Extraction Method: EPA 3550B Level: Low
 Analysis Method: NWTPH-Dx

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND U	25	2.7	1	06/08/06	06/09/06	KWG0609367	
Residual Range Organics (RRO)	4.7	100	4.5	1	06/08/06	06/09/06	KWG0609367	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	82	50-150	06/09/06	Acceptable
n-Triacontane	87	50-150	06/09/06	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574

**Surrogate Recovery Summary
Diesel and Residual Range Organics**

Extraction Method: EPA 3550B
Analysis Method: NWTPH-Dx

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>
NWC-2-5W	K0604574-001	78	81
NWC-2-6W	K0604574-002	62	65
NWC-2-7W	K0604574-003	75	84
NWC-2-8W	K0604574-008	86	80
NWC-2-36W	K0604574-009	49 *	63
NWC-2-42W	K0604574-012	95	74
NWC-2-42WDUP	KWG0609367-1	93	70
Method Blank	KWG0609367-3	82	87
Lab Control Sample	KWG0609367-2	90	90

Surrogate Recovery Control Limits (%)

Sur1 = o-Terphenyl 50-150
Sur2 = n-Triacontane 50-150

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Extracted: 06/08/2006
Date Analyzed: 06/10/2006 -
06/12/2006

Duplicate Sample Summary
Diesel and Residual Range Organics

Sample Name:	NWC-2-42W	Units:	mg/Kg
Lab Code:	K0604574-012	Basis:	Dry
Extraction Method:	EPA 3550B	Level:	Low
Analysis Method:	NWTPH-Dx	Extraction Lot:	KWG0609367

Analyte Name	MRL	MDL	Sample Result	NWC-2-42WDUP		Relative Percent Difference	RPD Limit
				Duplicate Sample Result	Average		
Diesel Range Organics (DRO)	150	17	1500	1400	1500	7	40
Residual Range Organics (RRO)	120	5.5	210	190	200	7 #	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Extracted: 06/08/2006
Date Analyzed: 06/09/2006

**Lab Control Spike Summary
Diesel and Residual Range Organics**

Extraction Method: EPA 3550B
Analysis Method: NWTPH-Dx

Units: mg/Kg
Basis: Dry

Level: Low

Extraction Lot: KWG0609367

Lab Control Sample

KWG0609367-2

Lab Control Spike

Analyte Name	Result	Expected	%Rec	Limits
Diesel Range Organics (DRO)	258	267	97	62-159
Residual Range Organics (RRO)	135	133	101	53-143

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Extracted: 06/08/2006
Date Analyzed: 06/09/2006
Time Analyzed: 00:33

Method Blank Summary
Diesel and Residual Range Organics

Sample Name: Method Blank
Lab Code: KWG0609367-3

File ID: J:\GC21\DATA\060806\0608F027.D
Instrument ID: GC21

Extraction Method: EPA 3550B
Analysis Method: NWTPH-Dx

Level: Low
Extraction Lot: KWG0609367

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG0609367-2	J:\GC21\DATA\060806\0608F026.D	06/09/06	00:13
NWC-2-5W	K0604574-001	J:\GC21\DATA\060806\0608F028.D	06/09/06	00:53
NWC-2-6W	K0604574-002	J:\GC21\DATA\060806\0608F029.D	06/09/06	01:13
NWC-2-7W	K0604574-003	J:\GC21\DATA\060806\0608F030.D	06/09/06	01:33
NWC-2-8W	K0604574-008	J:\GC21\DATA\060906\0609F028.D	06/10/06	00:16
NWC-2-6W	K0604574-002	J:\GC21\DATA\060906\0609F029.D	06/10/06	00:36
NWC-2-7W	K0604574-003	J:\GC21\DATA\060906\0609F030.D	06/10/06	00:56
NWC-2-36W	K0604574-009	J:\GC21\DATA\060906\0609F031.D	06/10/06	01:16
NWC-2-42W	K0604574-012	J:\GC21\DATA\060906\0609F032.D	06/10/06	01:36
NWC-2-42WDUP	KWG0609367-1	J:\GC21\DATA\060906\0609F033.D	06/10/06	01:56
NWC-2-8W	K0604574-008	J:\GC21\DATA\061206\0612F007.D	06/12/06	22:02
NWC-2-36W	K0604574-009	J:\GC21\DATA\061206\0612F008.D	06/12/06	22:22
NWC-2-42W	K0604574-012	J:\GC21\DATA\061206\0612F009.D	06/12/06	22:43
NWC-2-42WDUP	KWG0609367-1	J:\GC21\DATA\061206\0612F010.D	06/12/06	23:03

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Extracted: 06/08/2006
Date Analyzed: 06/09/2006
Time Analyzed: 00:13

Lab Control Sample Summary
Diesel and Residual Range Organics

Sample Name: Lab Control Sample
Lab Code: KWG0609367-2

File ID: J:\GC21\DATA\060806\0608F026.D
Instrument ID: GC21

Extraction Method: EPA 3550B
Analysis Method: NWTPH-Dx

Level: Low
Extraction Lot: KWG0609367

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG0609367-3	J:\GC21\DATA\060806\0608F027.D	06/09/06	00:33
NWC-2-5W	K0604574-001	J:\GC21\DATA\060806\0608F028.D	06/09/06	00:53
NWC-2-6W	K0604574-002	J:\GC21\DATA\060806\0608F029.D	06/09/06	01:13
NWC-2-7W	K0604574-003	J:\GC21\DATA\060806\0608F030.D	06/09/06	01:33
NWC-2-8W	K0604574-008	J:\GC21\DATA\060906\0609F028.D	06/10/06	00:16
NWC-2-6W	K0604574-002	J:\GC21\DATA\060906\0609F029.D	06/10/06	00:36
NWC-2-7W	K0604574-003	J:\GC21\DATA\060906\0609F030.D	06/10/06	00:56
NWC-2-36W	K0604574-009	J:\GC21\DATA\060906\0609F031.D	06/10/06	01:16
NWC-2-42W	K0604574-012	J:\GC21\DATA\060906\0609F032.D	06/10/06	01:36
NWC-2-42WDUP	KWG0609367-1	J:\GC21\DATA\060906\0609F033.D	06/10/06	01:56
NWC-2-8W	K0604574-008	J:\GC21\DATA\061206\0612F007.D	06/12/06	22:02
NWC-2-36W	K0604574-009	J:\GC21\DATA\061206\0612F008.D	06/12/06	22:22
NWC-2-42W	K0604574-012	J:\GC21\DATA\061206\0612F009.D	06/12/06	22:43
NWC-2-42WDUP	KWG0609367-1	J:\GC21\DATA\061206\0612F010.D	06/12/06	23:03

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client:
Project:

Geomatrix Consultants, Incorporated
NW Corner-FRP/8769.005/4

Service Request: K0604574
Calibration Date: 04/22/2006

Initial Calibration Summary
Diesel and Residual Range Organics

Calibration ID: CAL5295
Instrument ID: GC21

Column: Equity-1 15 m

Level ID	File ID	Level ID	File ID
A	J:\GC21\DATA\CALIBRAT\042306.SEC\0423P005.D	H	J:\GC21\DATA\CALIBRAT\042306.SEC\0423P019.D
B	J:\GC21\DATA\CALIBRAT\042306.SEC\0423P007.D	I	J:\GC21\DATA\CALIBRAT\042306.SEC\0423P021.D
C	J:\GC21\DATA\CALIBRAT\042306.SEC\0423P009.D	J	J:\GC21\DATA\CALIBRAT\042306.SEC\0423P023.D
D	J:\GC21\DATA\CALIBRAT\042306.SEC\0423P011.D	K	J:\GC21\DATA\CALIBRAT\042306.SEC\0423P025.D
E	J:\GC21\DATA\CALIBRAT\042306.SEC\0423P013.D	L	J:\GC21\DATA\CALIBRAT\042306.SEC\0423P027.D
F	J:\GC21\DATA\CALIBRAT\042306.SEC\0423P015.D	M	J:\GC21\DATA\CALIBRAT\042306.SEC\0423P029.D
G	J:\GC21\DATA\CALIBRAT\042306.SEC\0423P017.D	N	J:\GC21\DATA\CALIBRAT\042306.SEC\0423P031.D

Analyte Name	Level			Level			Level			Level			Level		
	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF
Diesel Range Organics (DRO)	A	20	51400				C	50	48500				E	200	44500
				G	500	44800				I	2000	43200			
										N	1000	41900			
Residual Range Organics (RRO)										D	50	29800			
	F	200	26600				H	500	27200				J	2000	26400
							M	1000	25500						
o-Terphenyl	A	1.0	55100				C	2.5	56500				E	10	53800
				G	25	53600				I	100	52900			
	K	250	52900							N	50	51500			
n-Triacontane	A	1.0	44700				C	2.5	44100				E	10	43800
				G	25	43600				I	100	41800			
	K	250	39900							N	50	40600			

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
 Calibration Date: 04/22/2006

Initial Calibration Summary
Diesel and Residual Range Organics

Calibration ID: CAL5295
 Instrument ID: GC21

Column: Equity-1 15 m

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	
Diesel Range Organics (DRO)	MS	AverageRF	% RSD	7.8		≤ 20
Residual Range Organics (RRO)	MS	AverageRF	% RSD	6.1		≤ 20
o-Terphenyl	SURR	AverageRF	% RSD	3.0		≤ 20
n-Triacontane	SURR	AverageRF	% RSD	4.4		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
Calibration Date: 04/22/2006
Date Analyzed: 04/23/2006

**Second Source Calibration Verification
Diesel and Residual Range Organics**

Calibration Type: External Standard
Analysis Method: NWTPH-Dx

Calibration ID: CAL5295
Units: ppm

File ID: J:\GC21\DATA\CALIBRAT\042306.SEC\0423P035.D
J:\GC21\DATA\CALIBRAT\042306.SEC\0423P037.D
J:\GC21\DATA\CALIBRAT\042306.SEC\0423P039.D

Column ID: Equity-1 15 m

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Diesel Range Organics (DRO)	1000	910	45700	41600	-9	NA	± 15 %	AverageRF
Residual Range Organics (RRO)	1000	930	27100	25300	-7	NA	± 15 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
Date Analyzed: 06/08/2006

**Continuing Calibration Verification Summary
Diesel and Residual Range Organics**

Calibration Type: External Standard
Analysis Method: NWTPH-Dx

Calibration Date: 04/22/2006
Calibration ID: CAL5295
Analysis Lot: KWG0609516
Units: ppm

File ID: J:\GC21\DATA\060806\0608F021.D
J:\GC21\DATA\060806\0608F022.D

Column ID: Equity-1 15 m

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Diesel Range Organics (DRO)	1000	940	45700	43000	-6	NA	$\pm 15\%$	AverageRF
Residual Range Organics (RRO)	1000	1000	27100	27500	1	NA	$\pm 15\%$	AverageRF
o-Terphenyl	50	48	53800	51500	-4	NA	$\pm 15\%$	AverageRF
n-Triacontane	50	50	42600	42400	-1	NA	$\pm 15\%$	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
Date Analyzed: 06/09/2006

**Continuing Calibration Verification Summary
Diesel and Residual Range Organics**

Calibration Type: External Standard
Analysis Method: NWTPH-Dx

Calibration Date: 04/22/2006
Calibration ID: CAL5295
Analysis Lot: KWG0609516
Units: ppm

File ID: J:\GC21\DATA\060806\0608F037.D
J:\GC21\DATA\060806\0608F038.D

Column ID: Equity-1 15 m

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Diesel Range Organics (DRO)	1000	930	45700	42500	-7	NA	$\pm 15\%$	AverageRF
Residual Range Organics (RRO)	1000	1100	27100	30500	13	NA	$\pm 15\%$	AverageRF
o-Terphenyl	50	46	53800	49800	-7	NA	$\pm 15\%$	AverageRF
n-Triacontane	50	49	42600	41700	-2	NA	$\pm 15\%$	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
Date Analyzed: 06/09/2006

Continuing Calibration Verification Summary
Diesel and Residual Range Organics

Calibration Type: External Standard
Analysis Method: NWTPH-Dx

Calibration Date: 04/22/2006
Calibration ID: CAL5295
Analysis Lot: KWG0609517
Units: ppm

File ID: J:\GC21\DATA\060906\0609F024.D
J:\GC21\DATA\060906\0609F025.D

Column ID: Equity-1 15 m

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Diesel Range Organics (DRO)	1000	970	45700	44400	-3	NA	± 15 %	AverageRF
Residual Range Organics (RRO)	1000	970	27100	26300	-3	NA	± 15 %	AverageRF
o-Terphenyl	50	50	53800	53300	-1	NA	± 15 %	AverageRF
n-Triacontane	50	48	42600	41300	-3	NA	± 15 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
Date Analyzed: 06/10/2006

**Continuing Calibration Verification Summary
Diesel and Residual Range Organics**

Calibration Type: External Standard
Analysis Method: NWTPH-Dx

Calibration Date: 04/22/2006
Calibration ID: CAL5295
Analysis Lot: KWG0609517
Units: ppm

File ID: J:\GC21\DATA\060906\0609F035.D
J:\GC21\DATA\060906\0609F036.D

Column ID: Equity-1 15 m

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Diesel Range Organics (DRO)	1000	970	45700	44200	-3	NA	$\pm 15\%$	AverageRF
Residual Range Organics (RRO)	1000	960	27100	26000	-4	NA	$\pm 15\%$	AverageRF
o-Terphenyl	50	49	53800	52800	-2	NA	$\pm 15\%$	AverageRF
n-Triacontane	50	49	42600	41800	-2	NA	$\pm 15\%$	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
Date Analyzed: 06/12/2006

Continuing Calibration Verification Summary
Diesel and Residual Range Organics

Calibration Type: External Standard
Analysis Method: NWTPH-Dx

Calibration Date: 04/22/2006
Calibration ID: CAL5295
Analysis Lot: KWG0609610
Units: ppm

File ID: J:\GC21\DATA\061206\0612F005.D
J:\GC21\DATA\061206\0612F006.D

Column ID: Equity-1 15 m

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Diesel Range Organics (DRO)	1000	900	45700	41000	-10	NA	± 15 %	AverageRF
Residual Range Organics (RRO)	1000	940	27100	25500	-6	NA	± 15 %	AverageRF
o-Terphenyl	50	46	53800	49500	-8	NA	± 15 %	AverageRF
n-Triacontane	50	45	42600	38300	-10	NA	± 15 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
Date Analyzed: 06/13/2006

**Continuing Calibration Verification Summary
Diesel and Residual Range Organics**

Calibration Type: External Standard
Analysis Method: NWTPH-Dx

Calibration Date: 04/22/2006
Calibration ID: CAL5295
Analysis Lot: KWG0609610
Units: ppm

File ID: J:\GC21\DATA\061206\0612F014.D
J:\GC21\DATA\061206\0612F015.D

Column ID: Equity-1 15 m

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Diesel Range Organics (DRO)	1000	910	45700	41600	-9	NA	$\pm 15\%$	AverageRF
Residual Range Organics (RRO)	1000	910	27100	24600	-9	NA	$\pm 15\%$	AverageRF
o-Terphenyl	50	47	53800	50300	-6	NA	$\pm 15\%$	AverageRF
n-Triacontane	50	44	42600	37700	-11	NA	$\pm 15\%$	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

**Organic Analysis:
Gasoline Range Organics**

Summary Package

Sample and QC Results

COLUMBIA ANALYTICAL SERVICES, INC.Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4

Service Request: K0604574

**Cover Page - Organic Analysis Data Package
Gasoline Range Organics**

Sample Name	Lab Code	Date Collected	Date Received
NWC-2-5W	K0604574-001	06/02/2006	06/06/2006
NWC-2-6W	K0604574-002	06/02/2006	06/06/2006
NWC-2-7W	K0604574-003	06/02/2006	06/06/2006
NWC-3-24W	K0604574-004	06/02/2006	06/06/2006
NWC-2-8W	K0604574-008	06/05/2006	06/06/2006
NWC-2-36W	K0604574-009	06/05/2006	06/06/2006
NWC-2-42W	K0604574-012	06/05/2006	06/06/2006
NWC-3-24W	KWG0609604-1	06/02/2006	06/06/2006

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: M. CenlerName: Mike EricksonDate: 6/20/06Title: Supervisor

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K0604574
 Date Collected: 06/02/2006
 Date Received: 06/06/2006

Gasoline Range Organics

Sample Name: NWC-2-SW Units: mg/Kg
 Lab Code: K0604574-001 Basis: Dry
 Extraction Method: EPA 5035/5030B Level: Med
 Analysis Method: NWTPH-Gx

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	1500	Y	30	3.5	1	06/13/06	06/14/06	KWG0609604	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	91	50-150	06/14/06	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Collected: 06/02/2006
Date Received: 06/06/2006

Gasoline Range Organics

Sample Name:	NWC-2-6W	Units:	mg/Kg
Lab Code:	K0604574-002	Basis:	Dry
Extraction Method:	EPA 5035/5030B	Level:	Med
Analysis Method:	NWTPH-Gx		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	13000 Y	140	16	1	06/13/06	06/14/06	KWG0609604	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	673	50-150	06/14/06	Outside Control Limits

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K0604574
 Date Collected: 06/02/2006
 Date Received: 06/06/2006

Gasoline Range Organics

Sample Name: NWC-2-7W Units: mg/Kg
 Lab Code: K0604574-003 Basis: Dry
 Extraction Method: EPA 5035/5030B Level: Med
 Analysis Method: NWTPH-Gx

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	6800	Y	58	6.8	1	06/13/06	06/14/06	KWG0609604	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	559	50-150	06/14/06	Outside Control Limits

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K0604574
 Date Collected: 06/02/2006
 Date Received: 06/06/2006

Gasoline Range Organics

Sample Name: NWC-3-24W Units: mg/Kg
 Lab Code: K0604574-004 Basis: Dry
 Extraction Method: EPA 5035/5030B Level: Med
 Analysis Method: NWTPH-Gx

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	71 Y	31	3.6	1	06/13/06	06/14/06	KWG0609604	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	88	50-150	06/14/06	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K060457
 Date Collected: 06/05/2006
 Date Received: 06/06/2006

Gasoline Range Organics

Sample Name: NWC-2-8W
 Lab Code: K0604574-008
 Extraction Method: EPA 5035/5030B
 Analysis Method: NWTPH-Gx

Units: mg/Kg
 Basis: Dry
 Level: Med

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot
Gasoline Range Organics-NWTPH	11000	Y	130	15	1	06/13/06	06/14/06	KWG0609604

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	714	50-150	06/14/06	Outside Control Limits

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K0604574
 Date Collected: 06/05/2006
 Date Received: 06/06/2006

Gasoline Range Organics

Sample Name: NWC-2-36W Units: mg/Kg
 Lab Code: K0604574-009 Basis: Dry
 Extraction Method: EPA 5035/5030B Level: Med
 Analysis Method: NWTPH-Gx

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	3500	Y	65	7.7	1	06/13/06	06/14/06	KWG0609604	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	178	50-150	06/14/06	Outside Control Limits

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K0604574
 Date Collected: 06/05/2006
 Date Received: 06/06/2006

Gasoline Range Organics

Sample Name: NWC-2-42W Units: mg/Kg
 Lab Code: K0604574-012 Basis: Dry
 Extraction Method: EPA 5035/5030B Level: Med
 Analysis Method: NWTPH-Gx

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	4800	Y	60	7.1	1	06/13/06	06/14/06	KWG0609604	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	483	50-150	06/14/06	Outside Control Limits

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Collected: NA
Date Received: NA

Gasoline Range Organics

Sample Name: Method Blank **Units:** mg/Kg
Lab Code: KWG0609604-3 **Basis:** Dry
Extraction Method: EPA 5035/5030B **Level:** Med
Analysis Method: NWTPH-Gx

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	4.5 J	5.0	0.59	1	06/13/06	06/14/06	KWG0609604	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	92	50-150	06/14/06	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574

Surrogate Recovery Summary
Gasoline Range Organics

Extraction Method: EPA 5035/5030B
Analysis Method: NWTPH-Gx

Units: PERCENT
Level: Med

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
NWC-2-5W	K0604574-001	91 #
NWC-2-6W	K0604574-002	673 #
NWC-2-7W	K0604574-003	559 #
NWC-3-24W	K0604574-004	88 #
NWC-2-8W	K0604574-008	714 #
NWC-2-36W	K0604574-009	178 #
NWC-2-42W	K0604574-012	483 #
NWC-3-24WDUP	KWG0609604-1	89 #
Method Blank	KWG0609604-3	92
Lab Control Sample	KWG0609604-2	96

Surrogate Recovery Control Limits (%)

Sur1 = 4-Bromofluorobenzene 50-150

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K0604574
 Date Extracted: 06/13/2006
 Date Analyzed: 06/14/2006

**Duplicate Sample Summary
Gasoline Range Organics**

Sample Name:	NWC-3-24W	Units:	mg/Kg
Lab Code:	K0604574-004	Basis:	Dry
Extraction Method:	EPA 5035/5030B	Level:	Med
Analysis Method:	NWTPH-Gx	Extraction Lot:	KWG0609604

Analyte Name	MRL	MDL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	RPD Limit
Gasoline Range Organics-NWTPH	31	3.6	71	74	73	5	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Extracted: 06/13/2006
Date Analyzed: 06/14/2006

**Lab Control Spike Summary
Gasoline Range Organics**

Extraction Method: EPA 5035/5030B
Analysis Method: NWTPH-Gx

Units: mg/Kg

Basis: Dry

Level: Med

Extraction Lot: KWG0609604

Lab Control Sample
KWG0609604-2
Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec
				Limits
Gasoline Range Organics-NWTPH	52.6	50.0	105	63-116

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Extracted: 06/13/2006
Date Analyzed: 06/14/2006
Time Analyzed: 12:34

Method Blank Summary
Gasoline Range Organics

Sample Name: Method Blank
Lab Code: KWG0609604-3
Extraction Method: EPA 5035/5030B
Analysis Method: NWTPH-Gx

File ID: J:\GC06\DATA\061406.FID\0614R004.D
Instrument ID: GC06
Level: Med
Extraction Lot: KWG0609604

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG0609604-2	J:\GC06\DATA\061406.FID\0614R005.D	06/14/06	13:05
NWC-3-24W	K0604574-004	J:\GC06\DATA\061406.FID\0614R007.D	06/14/06	14:29
NWC-3-24WDUP	KWG0609604-1	J:\GC06\DATA\061406.FID\0614R008.D	06/14/06	15:00
NWC-2-5W	K0604574-001	J:\GC06\DATA\061406.FID\0614R009.D	06/14/06	15:32
NWC-2-42W	K0604574-012	J:\GC06\DATA\061406.FID\0614R011.D	06/14/06	16:35
NWC-2-7W	K0604574-003	J:\GC06\DATA\061406.FID\0614R013.D	06/14/06	17:38
NWC-2-36W	K0604574-009	J:\GC06\DATA\061406.FID\0614R015.D	06/14/06	18:41
NWC-2-8W	K0604574-008	J:\GC06\DATA\061406.FID\0614R017.D	06/14/06	19:44
NWC-2-6W	K0604574-002	J:\GC06\DATA\061406.FID\0614R019.D	06/14/06	20:47

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Extracted: 06/13/2006
Date Analyzed: 06/14/2006
Time Analyzed: 13:05

Lab Control Sample Summary
Gasoline Range Organics

Sample Name: Lab Control Sample
Lab Code: KWG0609604-2
Extraction Method: EPA 5035/5030B
Analysis Method: NWTPH-Gx

File ID: J:\GC06\DATA\061406.FID\0614R005.D
Instrument ID: GC06
Level: Med
Extraction Lot: KWG0609604

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG0609604-3	J:\GC06\DATA\061406.FID\0614R004.D	06/14/06	12:34
NWC-3-24W	K0604574-004	J:\GC06\DATA\061406.FID\0614R007.D	06/14/06	14:29
NWC-3-24WDUP	KWG0609604-1	J:\GC06\DATA\061406.FID\0614R008.D	06/14/06	15:00
NWC-2-5W	K0604574-001	J:\GC06\DATA\061406.FID\0614R009.D	06/14/06	15:32
NWC-2-42W	K0604574-012	J:\GC06\DATA\061406.FID\0614R011.D	06/14/06	16:35
NWC-2-7W	K0604574-003	J:\GC06\DATA\061406.FID\0614R013.D	06/14/06	17:38
NWC-2-36W	K0604574-009	J:\GC06\DATA\061406.FID\0614R015.D	06/14/06	18:41
NWC-2-8W	K0604574-008	J:\GC06\DATA\061406.FID\0614R017.D	06/14/06	19:44
NWC-2-6W	K0604574-002	J:\GC06\DATA\061406.FID\0614R019.D	06/14/06	20:47

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
 Calibration Date: 11/11/2005

**Initial Calibration Summary
Gasoline Range Organics**

Calibration ID: CAL5090
 Instrument ID: GC06

Column: DB-624

Level ID	File ID	Level ID	File ID
A	J:\GC06\DATA\111105.FID\1111R004.D	G	J:\GC06\DATA\111105.FID\1111R017.D
B	J:\GC06\DATA\111105.FID\1111R005.D	H	J:\GC06\DATA\012706A.FID\0127R003.D
C	J:\GC06\DATA\111105.FID\1111R006.D	I	J:\GC06\DATA\012706A.FID\0127R004.D
D	J:\GC06\DATA\111105.FID\1111R007.D	J	J:\GC06\DATA\012706A.FID\0127R005.D
E	J:\GC06\DATA\111105.FID\1111R008.D	K	J:\GC06\DATA\012706A.FID\0127R006.D
F	J:\GC06\DATA\111105.FID\1111R009.D	L	J:\GC06\DATA\012706A.FID\0127R007.D

Analyte Name	Level			Level			Level			Level			Level		
	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF
Gasoline Range Organics-NWTPH	A	100	6970	B	200	6050	C	500	5980	D	1000	6060	E	5000	5870
	F	10000	5830	G	50	7010									
4-Bromofluorobenzene							H	13	7780	I	25	7270	J	50	7740
	K	100	7930	L	150	7810									

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
Calibration Date: 11/11/2005

**Initial Calibration Summary
Gasoline Range Organics**

Calibration ID: CAL5090
Instrument ID: GC06

Column: DB-624

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Gasoline Range Organics-NWTPH	MS	AverageRF	% RSD	8.1		≤ 20
4-Bromofluorobenzene	SURR	AverageRF	% RSD	3.3		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
Calibration Date: 11/11/2005
Date Analyzed: 11/12/2005

**Second Source Calibration Verification
Gasoline Range Organics**

Calibration Type: External Standard
Analysis Method: NWTPH-Gx

Calibration ID: CAL5090
Units: ug/L

File ID: J:\GC06\DATA\111105.FID\1111R018.D

Column ID: DB-624

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Gasoline Range Organics-NWTPH	500	560	6250	7030	12	NA	± 15 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
Date Analyzed: 06/14/2006

**Continuing Calibration Verification Summary
Gasoline Range Organics**

Calibration Type: External Standard
Analysis Method: NWTPH-Gx

Calibration Date: 11/11/2005
Calibration ID: CAL5090
Analysis Lot: KWG0609800
Units: ug/L

File ID: J:\GC06\DATA\061406.FID\0614R001.D

Column ID: DB-624

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Gasoline Range Organics-NWTPH	500	560	6250	6960	11	NA	$\pm 20\%$	AverageRF
4-Bromofluorobenzene	100	92	7710	7090	-8	NA	$\pm 20\%$	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
Date Analyzed: 06/14/2006

**Continuing Calibration Verification Summary
Gasoline Range Organics**

Calibration Type: External Standard
Analysis Method: NWTPH-Gx

Calibration Date: 11/11/2005
Calibration ID: CAL5090
Analysis Lot: KWG0609800
Units: ug/L

File ID: J:\GC06\DATA\061406.FID\0614R022.D

Column ID: DB-624

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Gasoline Range Organics-NWTPH	500	550	6250	6860	10	NA	± 20 %	AverageRF
4-Bromofluorobenzene	100	89	7710	6830	-11	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4

Service Request: K0604574

Analysis Run Log
Gasoline Range Organics

Analysis Method: NWTPH-Gx

Analysis Lot: KWG0609800
Instrument ID: GC06
Column: DB-624

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0614R001.D	Continuing Calibration Verification	KWG0609800-3	6/14/2006	09:56		6/14/2006	10:12
0614R003.D	Instrument Blank	KWG0609800-1	6/14/2006	10:58		6/14/2006	11:14
0614R004.D	Method Blank	KWG0609604-3	6/14/2006	12:34		6/14/2006	12:50
0614R005.D	Lab Control Sample	KWG0609604-2	6/14/2006	13:05		6/14/2006	13:21
0614R007.D	NWC-3-24W	K0604574-004	6/14/2006	14:29		6/14/2006	14:45
0614R008.D	NWC-3-24WDUP	KWG0609604-1	6/14/2006	15:00		6/14/2006	15:16
0614R009.D	NWC-2-5W	K0604574-001	6/14/2006	15:32		6/14/2006	15:48
0614R011.D	NWC-2-42W	K0604574-012	6/14/2006	16:35		6/14/2006	16:51
0614R013.D	NWC-2-7W	K0604574-003	6/14/2006	17:38		6/14/2006	17:54
0614R015.D	NWC-2-36W	K0604574-009	6/14/2006	18:41		6/14/2006	18:57
0614R017.D	NWC-2-8W	K0604574-008	6/14/2006	19:44		6/14/2006	20:00
0614R019.D	NWC-2-6W	K0604574-002	6/14/2006	20:47		6/14/2006	21:03
0614R021.D	Instrument Blank	KWG0609800-2	6/14/2006	21:50		6/14/2006	22:06
0614R022.D	Continuing Calibration Verification	KWG0609800-4	6/14/2006	22:22		6/14/2006	22:38

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K0604574
 Date Extracted: 6/13/2006

Extraction Prep Log
Gasoline Range Organics

Extraction Method: EPA 5035/5030B
 Analysis Method: NWTPH-Gx

Extraction Lot: KWG0609604
 Level: Med

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	MeOH Volume	MeOH Aliquot	Final Volume	% Solids	Note
NWC-2-5W	K0604574-001	06/02/06	06/06/06	5.53g	10.0ml	200uL	50ml	76.3	
NWC-2-6W	K0604574-002	06/02/06	06/06/06	5.15g	10.0ml	50uL	50ml	73.4	
NWC-2-7W	K0604574-003	06/02/06	06/06/06	5.44g	10.0ml	100uL	50ml	79.8	
NWC-3-24W	K0604574-004	06/02/06	06/06/06	5.08g	10.0ml	200uL	50ml	81.4	
NWC-2-8W	K0604574-008	06/05/06	06/06/06	5.14g	10.0ml	50uL	50ml	80.7	
NWC-2-36W	K0604574-009	06/05/06	06/06/06	5.28g	10.0ml	100uL	50ml	72.9	
NWC-2-42W	K0604574-012	06/05/06	06/06/06	5.05g	10.0ml	100uL	50ml	82.6	
NWC-3-24WDUP	KWG0609604-1	06/02/06	06/06/06	5.08g	10.0ml	200uL	50ml	81.4	
Method Blank	KWG0609604-3	NA	NA	5.00g	10.0ml	1000uL	50ml	NA	
Lab Control Sample	KWG0609604-2	NA	NA	5.00g	10.0ml	1000uL	50ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

NWTPH-HCID

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Collected: 6/2/2006
Date Received: 6/6/2006

Hydrocarbon Identification Screen

Sample Name:	NWC-2-5W	Units:	mg/Kg (ppm)
Lab Code:	K0604574-001	Basis:	Dry
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Gasoline Range Organics	EPA 3550B	NWTPH-HCID	20	1	6/8/2006	6/9/2006	D	
Diesel Range Organics	EPA 3550B	NWTPH-HCID	50	1	6/8/2006	6/9/2006	D	
Residual Range Organics	EPA 3550B	NWTPH-HCID	100	1	6/8/2006	6/9/2006	ND	

D

Detected at or above the method reporting limit. Follow-up analyses are required for quantitative results.

Approved By: M. Curdu Date: 6/21/06

IS22/020597p

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Collected: 6/2/2006
Date Received: 6/6/2006

Hydrocarbon Identification Screen

Sample Name: NWC-2-6W Units: mg/Kg (ppm)
Lab Code: K0604574-002 Basis: Dry
Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Gasoline Range Organics	EPA 3550B	NWTPH-HCID	20	1	6/8/2006	6/9/2006	D	
Diesel Range Organics	EPA 3550B	NWTPH-HCID	50	1	6/8/2006	6/9/2006	D	
Residual Range Organics	EPA 3550B	NWTPH-HCID	100	1	6/8/2006	6/9/2006	D	

D

Detected at or above the method reporting limit. Follow-up analyses are required for quantitative results.

Approved By: MM

Archer

Date: 6/2/06

IS22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Collected: 6/2/2006
Date Received: 6/6/2006

Hydrocarbon Identification Screen

Sample Name: NWC-2-7W Units: mg/Kg (ppm)
Lab Code: K0604574-003 Basis: Dry
Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Gasoline Range Organics	EPA 3550B	NWTPH-HCID	20	1	6/8/2006	6/9/2006	D	
Diesel Range Organics	EPA 3550B	NWTPH-HCID	50	1	6/8/2006	6/9/2006	D	
Residual Range Organics	EPA 3550B	NWTPH-HCID	100	1	6/8/2006	6/9/2006	D	

D

Detected at or above the method reporting limit. Follow-up analyses are required for quantitative results.

Approved By: M. Guler Date: 6/21/06
LS22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Collected: 6/2/2006
Date Received: 6/6/2006

Hydrocarbon Identification Screen

Sample Name: NWC-3-24W Units: mg/Kg (ppm)
Lab Code: K0604574-004 Basis: Dry
Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Notes
Gasoline Range Organics	EPA 3550B	NWTPH-HCID	20		6/8/2006	6/9/2006	D	
Diesel Range Organics	EPA 3550B	NWTPH-HCID	50		6/8/2006	6/9/2006	ND	
Residual Range Organics	EPA 3550B	NWTPH-HCID	100		6/8/2006	6/9/2006	ND	

D

Detected at or above the method reporting limit. Follow-up analyses are required for quantitative results.

Approved By:

M. Lunder

Date:

6/21/06

1S22/020597p

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Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Collected: 6/5/2006
Date Received: 6/6/2006

Hydrocarbon Identification Screen

Sample Name: NWC-2-8W Units: mg/Kg (ppm)
Lab Code: K0604574-008 Basis: Dry
Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Gasoline Range Organics	EPA 3550B	NWTPH-HCID	20	1	6/8/2006	6/10/2006	D	
Diesel Range Organics	EPA 3550B	NWTPH-HCID	50	1	6/8/2006	6/10/2006	D	
Residual Range Organics	EPA 3550B	NWTPH-HCID	100	1	6/8/2006	6/10/2006	D	

D

Detected at or above the method reporting limit. Follow-up analyses are required for quantitative results.

Approved By: M. Luria

Date: 6/10/06

IS22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Collected: 6/5/2006
Date Received: 6/6/2006

Hydrocarbon Identification Screen

Sample Name: NWC-2-36W Units: mg/Kg (ppm)
Lab Code: K0604574-009 Basis: Dry
Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Gasoline Range Organics	EPA 3550B	NWTPH-HCID	20	1	6/8/2006	6/12/2006	D	
Diesel Range Organics	EPA 3550B	NWTPH-HCID	50	1	6/8/2006	6/12/2006	D	
Residual Range Organics	EPA 3550B	NWTPH-HCID	100	1	6/8/2006	6/12/2006	D	

D

Detected at or above the method reporting limit. Follow-up analyses are required for quantitative results.

Approved By: M. Lurda Date: 6/21/06

1S22/020597p

K0604574phc.kc2 - 9 6/21/2006

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Collected: NA
Date Received: NA

Hydrocarbon Identification Screen

Sample Name: Method Blank Units: mg/Kg (ppm)
Lab Code: KWG0609367-3 Basis: Dry
Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Gasoline Range Organics	EPA 3550B	NWTPH-HCID	.20	1	6/8/2006	6/9/2006	ND	
Diesel Range Organics	EPA 3550B	NWTPH-HCID	50	1	6/8/2006	6/9/2006	ND	
Residual Range Organics	EPA 3550B	NWTPH-HCID	100	1	6/8/2006	6/9/2006	ND	

Approved By: Mr. Linder Date: 6/21/06

IS22/020597p

Page No.:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Collected: 6/5/2006
Date Received: 6/6/2006

Hydrocarbon Identification Screen

Sample Name: NWC-2-42W Units: mg/Kg (ppm)
Lab Code: K0604574-012 Basis: Dry
Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Gasoline Range Organics	EPA 3550B	NWTPH-HCID	20	1	6/8/2006	6/12/2006	D	
Diesel Range Organics	EPA 3550B	NWTPH-HCID	50	1	6/8/2006	6/12/2006	D	
Residual Range Organics	EPA 3550B	NWTPH-HCID	100	1	6/8/2006	6/12/2006	D	

D

Detected at or above the method reporting limit. Follow-up analyses are required for quantitative results.

Approved By: M. A. Khan Date: 12/16/06

1S22/020597P

Date: 6/21/06

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Collected: 6/2-5/2006
Date Received: 6/6/2006
Date Extracted: 6/8/2006
Date Analyzed: 6/9-12/2006

Surrogate Recovery Summary
Hydrocarbon Identification Screen

Prep Method: EPA 3550B
Analysis Method: NWTPH-HCID

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	P e r c e n t	R e c o v e r y	
			o-Terphenyl	4-Bromofluorobenzene	n-Triacontane
NWC-2-5W	K0604574-001		78	87	81
NWC-2-6W	K0604574-002		62	212 *	65
NWC-2-7W	K0604574-003		75	136	84
NWC-3-24W	K0604574-004		88	89	92
NWC-2-8W	K0604574-008		86	143	80
NWC-2-36W	K0604574-009		49 *	109	63
NWC-2-42W	K0604574-012		95	247 *	74
Method Blank	KWG0609367-3		82	60	87

CAS Acceptance Limits: 50-150 20-150 50-150

Approved By: M. Culer Date: 6/2/06

Organic Analysis:
Semi-Volatile Organic Compounds by GC/MS

Summary Package

Sample and QC Results

COLUMBIA ANALYTICAL SERVICES, INC.

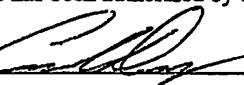
Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4

Service Request: K0604574

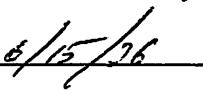
Cover Page - Organic Analysis Data Package
Semi-Volatile Organic Compounds by GC/MS

Sample Name	Lab Code	Date Collected	Date Received
NWC-1-22W	K0604574-006	06/02/2006	06/06/2006
NWC-1-2W	K0604574-007	06/02/2006	06/06/2006
NWC-1-12W	K0604574-010	06/05/2006	06/06/2006
NWC-2-39W	K0604574-011	06/05/2006	06/06/2006

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: 

Name: 

Date: 

Title: 

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K0604574
 Date Collected: 06/02/2006
 Date Received: 06/06/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: NWC-1-22W
 Lab Code: K0604574-006
 Extraction Method: EPA 3541
 Analysis Method: 8270C

Units: ug/Kg
 Basis: Dry
 Level: Low

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Bis(2-chloroethyl) Ether	ND U	13	5.9	2	06/08/06	06/11/06	KWG0609161	
Phenol	17 JD	37	4.6	2	06/08/06	06/11/06	KWG0609161	
2-Chlorophenol	ND U	13	4.2	2	06/08/06	06/11/06	KWG0609161	
1,3-Dichlorobenzene	ND U	13	3.9	2	06/08/06	06/11/06	KWG0609161	
1,4-Dichlorobenzene	ND U	13	4.6	2	06/08/06	06/11/06	KWG0609161	
1,2-Dichlorobenzene	ND U	13	3.2	2	06/08/06	06/11/06	KWG0609161	
Benzyl Alcohol	ND U	13	9.0	2	06/08/06	06/11/06	KWG0609161	
Bis(2-chloroisopropyl) Ether	ND U	13	3.0	2	06/08/06	06/11/06	KWG0609161	
2-Methylphenol	ND U	13	8.3	2	06/08/06	06/11/06	KWG0609161	
Hexachloroethane	ND U	13	5.4	2	06/08/06	06/11/06	KWG0609161	
N-Nitrosodi-n-propylamine	ND U	13	7.8	2	06/08/06	06/11/06	KWG0609161	
4-Methylphenol†	ND U	13	7.1	2	06/08/06	06/11/06	KWG0609161	
Nitrobenzene	ND U	13	4.9	2	06/08/06	06/11/06	KWG0609161	
Isophorone	ND U	13	3.9	2	06/08/06	06/11/06	KWG0609161	
2-Nitrophenol	ND U	13	6.3	2	06/08/06	06/11/06	KWG0609161	
2,4-Dimethylphenol	ND U	61	14	2	06/08/06	06/11/06	KWG0609161	
Bis(2-chloroethoxy)methane	ND U	13	3.2	2	06/08/06	06/11/06	KWG0609161	
2,4-Dichlorophenol	ND U	13	4.4	2	06/08/06	06/11/06	KWG0609161	
Benzoic Acid	ND U	250	240	2	06/08/06	06/11/06	KWG0609161	*
1,2,4-Trichlorobenzene	ND U	13	3.7	2	06/08/06	06/11/06	KWG0609161	
Naphthalene	14 D	13	3.2	2	06/08/06	06/11/06	KWG0609161	
4-Chloroaniline	ND U	13	5.1	2	06/08/06	06/11/06	KWG0609161	
Hexachlorobutadiene	ND U	13	3.4	2	06/08/06	06/11/06	KWG0609161	
4-Chloro-3-methylphenol	ND U	13	5.1	2	06/08/06	06/11/06	KWG0609161	
2-Methylnaphthalene	13 D	13	3.0	2	06/08/06	06/11/06	KWG0609161	
Hexachlorocyclopentadiene	ND U	61	37	2	06/08/06	06/11/06	KWG0609161	
2,4,6-Trichlorophenol	ND U	13	4.4	2	06/08/06	06/11/06	KWG0609161	
2,4,5-Trichlorophenol	7.9 JD	13	7.3	2	06/08/06	06/11/06	KWG0609161	
2-Chloronaphthalene	ND U	13	8.8	2	06/08/06	06/11/06	KWG0609161	
2-Nitroaniline	ND U	25	6.6	2	06/08/06	06/11/06	KWG0609161	
Acenaphthylene	ND U	13	3.4	2	06/08/06	06/11/06	KWG0609161	
Dimethyl Phthalate	ND U	13	4.4	2	06/08/06	06/11/06	KWG0609161	
2,6-Dinitrotoluene	ND U	13	6.8	2	06/08/06	06/11/06	KWG0609161	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K0604574
 Date Collected: 06/02/2006
 Date Received: 06/06/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name:	NWC-1-22W	Units:	ug/Kg
Lab Code:	K0604574-006	Basis:	Dry
Extraction Method:	EPA 3541	Level:	Low
Analysis Method:	8270C		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Acenaphthene	ND U	13	2.5	2	06/08/06	06/11/06	KWG0609161	
3-Nitroaniline	ND U	25	6.3	2	06/08/06	06/11/06	KWG0609161	
2,4-Dinitrophenol	ND U	250	88	2	06/08/06	06/11/06	KWG0609161	
Dibenzofuran	ND U	13	3.2	2	06/08/06	06/11/06	KWG0609161	
4-Nitrophenol	ND U	130	73	2	06/08/06	06/11/06	KWG0609161	
2,4-Dinitrotoluene	ND U	13	6.8	2	06/08/06	06/11/06	KWG0609161	
Fluorene	ND U	13	4.2	2	06/08/06	06/11/06	KWG0609161	
4-Chlorophenyl Phenyl Ether	ND U	13	4.9	2	06/08/06	06/11/06	KWG0609161	
Diethyl Phthalate	ND U	13	8.5	2	06/08/06	06/11/06	KWG0609161	
4-Nitroaniline	ND U	25	8.3	2	06/08/06	06/11/06	KWG0609161	
2-Methyl-4,6-dinitrophenol	ND U	130	4.2	2	06/08/06	06/11/06	KWG0609161	
N-Nitrosodiphenylamine	ND U	13	5.4	2	06/08/06	06/11/06	KWG0609161	
4-Bromophenyl Phenyl Ether	ND U	13	3.4	2	06/08/06	06/11/06	KWG0609161	
Hexachlorobenzene	ND U	13	5.1	2	06/08/06	06/11/06	KWG0609161	
Pentachlorophenol	550 D	130	21	2	06/08/06	06/11/06	KWG0609161	
Phenanthrene	15 D	13	3.2	2	06/08/06	06/11/06	KWG0609161	
Anthracene	ND U	13	3.4	2	06/08/06	06/11/06	KWG0609161	
Di-n-butyl Phthalate	15 D	13	6.3	2	06/08/06	06/11/06	KWG0609161	
Fluoranthene	16 D	13	5.4	2	06/08/06	06/11/06	KWG0609161	
Pyrene	20 D	13	3.2	2	06/08/06	06/11/06	KWG0609161	
Butyl Benzyl Phthalate	ND U	13	3.7	2	06/08/06	06/11/06	KWG0609161	
3,3'-Dichlorobenzidine	ND U	130	9.0	2	06/08/06	06/11/06	KWG0609161	
Benz(a)anthracene	3.7 JD	13	3.4	2	06/08/06	06/11/06	KWG0609161	
Chrysene	8.7 JD	13	3.4	2	06/08/06	06/11/06	KWG0609161	
Bis(2-ethylhexyl) Phthalate	25 JD	250	4.2	2	06/08/06	06/11/06	KWG0609161	
Di-n-octyl Phthalate	ND U	13	3.0	2	06/08/06	06/11/06	KWG0609161	
Benzo(b)fluoranthene	9.4 JD	13	6.1	2	06/08/06	06/11/06	KWG0609161	
Benzo(k)fluoranthene	ND U	13	6.1	2	06/08/06	06/11/06	KWG0609161	
Benzo(a)pyrene	4.2 JD	13	3.9	2	06/08/06	06/11/06	KWG0609161	
Indeno(1,2,3-cd)pyrene	4.8 JD	13	4.6	2	06/08/06	06/11/06	KWG0609161	
Dibenz(a,h)anthracene	ND U	13	5.4	2	06/08/06	06/11/06	KWG0609161	
Benzo(g,h,i)perylene	6.0 JD	13	5.6	2	06/08/06	06/11/06	KWG0609161	

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.**Analytical Results**

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Collected: 06/02/2006
Date Received: 06/06/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: NWC-1-22W **Units:** ug/Kg
Lab Code: K0604574-006 **Basis:** Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	33	12-88	06/11/06	Acceptable
Phenol-d6	53	20-101	06/11/06	Acceptable
Nitrobenzene-d5	38	10-97	06/11/06	Acceptable
2-Fluorobiphenyl	53	10-107	06/11/06	Acceptable
2,4,6-Tribromophenol	55	16-122	06/11/06	Acceptable
Terphenyl-d14	60	28-135	06/11/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K0604574
 Date Collected: 06/02/2006
 Date Received: 06/06/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name:	NWC-1-2W	Units: ug/Kg
Lab Code:	K0604574-007	Basis: Dry
Extraction Method:	EPA 3541	Level: Low
Analysis Method:	8270C	

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Bis(2-chloroethyl) Ether	ND U	13	6.1	2	06/08/06	06/11/06	KWG0609161	
Phenol	ND U	38	4.8	2	06/08/06	06/11/06	KWG0609161	
2-Chlorophenol	ND U	13	4.3	2	06/08/06	06/11/06	KWG0609161	
1,3-Dichlorobenzene	ND U	13	4.1	2	06/08/06	06/11/06	KWG0609161	
1,4-Dichlorobenzene	ND U	13	4.8	2	06/08/06	06/11/06	KWG0609161	
1,2-Dichlorobenzene	ND U	13	3.3	2	06/08/06	06/11/06	KWG0609161	
Benzyl Alcohol	ND U	13	9.3	2	06/08/06	06/11/06	KWG0609161	
Bis(2-chloroisopropyl) Ether	ND U	13	3.1	2	06/08/06	06/11/06	KWG0609161	
2-Methylphenol	ND U	13	8.6	2	06/08/06	06/11/06	KWG0609161	
Hexachloroethane	ND U	13	5.6	2	06/08/06	06/11/06	KWG0609161	
N-Nitrosodi-n-propylamine	ND U	13	8.1	2	06/08/06	06/11/06	KWG0609161	
4-Methylphenol†	ND U	13	7.3	2	06/08/06	06/11/06	KWG0609161	
Nitrobenzene	ND U	13	5.1	2	06/08/06	06/11/06	KWG0609161	
Isophorone	ND U	13	4.1	2	06/08/06	06/11/06	KWG0609161	
2-Nitrophenol	ND U	13	6.6	2	06/08/06	06/11/06	KWG0609161	
2,4-Dimethylphenol	ND U	63	14	2	06/08/06	06/11/06	KWG0609161	
Bis(2-chloroethoxy)methane	ND U	13	3.3	2	06/08/06	06/11/06	KWG0609161	
2,4-Dichlorophenol	ND U	13	4.6	2	06/08/06	06/11/06	KWG0609161	
Benzoic Acid	ND U	260	250	2	06/08/06	06/11/06	KWG0609161	*
1,2,4-Trichlorobenzene	ND U	13	3.8	2	06/08/06	06/11/06	KWG0609161	
Naphthalene	6.2 JD	13	3.3	2	06/08/06	06/11/06	KWG0609161	
4-Chloroaniline	ND U	13	5.3	2	06/08/06	06/11/06	KWG0609161	
Hexachlorobutadiene	ND U	13	3.6	2	06/08/06	06/11/06	KWG0609161	
4-Chloro-3-methylphenol	ND U	13	5.3	2	06/08/06	06/11/06	KWG0609161	
2-Methylnaphthalene	5.6 JD	13	3.1	2	06/08/06	06/11/06	KWG0609161	
Hexachlorocyclopentadiene	ND U	63	38	2	06/08/06	06/11/06	KWG0609161	
2,4,6-Trichlorophenol	ND U	13	4.6	2	06/08/06	06/11/06	KWG0609161	
2,4,5-Trichlorophenol	ND U	13	7.6	2	06/08/06	06/11/06	KWG0609161	
2-Chloronaphthalene	ND U	13	9.1	2	06/08/06	06/11/06	KWG0609161	
2-Nitroaniline	ND U	26	6.8	2	06/08/06	06/11/06	KWG0609161	
Acenaphthylene	ND U	13	3.6	2	06/08/06	06/11/06	KWG0609161	
Dimethyl Phthalate	ND U	13	4.6	2	06/08/06	06/11/06	KWG0609161	
2,6-Dinitrotoluene	ND U	13	7.1	2	06/08/06	06/11/06	KWG0609161	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K0604574
 Date Collected: 06/02/2006
 Date Received: 06/06/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: NWC-1-2W Units: ug/Kg
 Lab Code: K0604574-007 Basis: Dry
 Extraction Method: EPA 3541 Level: Low
 Analysis Method: 8270C

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Acenaphthene	ND U	13	2.6	2	06/08/06	06/11/06	KWG0609161	
3-Nitroaniline	ND U	26	6.6	2	06/08/06	06/11/06	KWG0609161	
2,4-Dinitrophenol	ND U	260	91	2	06/08/06	06/11/06	KWG0609161	
Dibenzofuran	ND U	13	3.3	2	06/08/06	06/11/06	KWG0609161	
4-Nitrophenol	ND U	130	76	2	06/08/06	06/11/06	KWG0609161	
2,4-Dinitrotoluene	ND U	13	7.1	2	06/08/06	06/11/06	KWG0609161	
Fluorene	ND U	13	4.3	2	06/08/06	06/11/06	KWG0609161	
4-Chlorophenyl Phenyl Ether	ND U	13	5.1	2	06/08/06	06/11/06	KWG0609161	
Diethyl Phthalate	ND U	13	8.8	2	06/08/06	06/11/06	KWG0609161	
4-Nitroaniline	ND U	26	8.6	2	06/08/06	06/11/06	KWG0609161	
2-Methyl-4,6-dinitrophenol	ND U	130	4.3	2	06/08/06	06/11/06	KWG0609161	
N-Nitrosodiphenylamine	ND U	13	5.6	2	06/08/06	06/11/06	KWG0609161	
4-Bromophenyl Phenyl Ether	ND U	13	3.6	2	06/08/06	06/11/06	KWG0609161	
Hexachlorobenzene	ND U	13	5.3	2	06/08/06	06/11/06	KWG0609161	
Pentachlorophenol	36 JD	130	22	2	06/08/06	06/11/06	KWG0609161	
Phenanthrene	12 JD	13	3.3	2	06/08/06	06/11/06	KWG0609161	
Anthracene	ND U	13	3.6	2	06/08/06	06/11/06	KWG0609161	
Di-n-butyl Phthalate	8.4 JD	13	6.6	2	06/08/06	06/11/06	KWG0609161	
Fluoranthene	14 D	13	5.6	2	06/08/06	06/11/06	KWG0609161	
Pyrene	12 JD	13	3.3	2	06/08/06	06/11/06	KWG0609161	
Butyl Benzyl Phthalate	ND U	13	3.8	2	06/08/06	06/11/06	KWG0609161	
3,3'-Dichlorobenzidine	ND U	130	9.3	2	06/08/06	06/11/06	KWG0609161	
Benz(a)anthracene	4.6 JD	13	3.6	2	06/08/06	06/11/06	KWG0609161	
Chrysene	15 D	13	3.6	2	06/08/06	06/11/06	KWG0609161	
Bis(2-ethylhexyl) Phthalate	34 JD	260	4.3	2	06/08/06	06/11/06	KWG0609161	
Di-n-octyl Phthalate	ND U	13	3.1	2	06/08/06	06/11/06	KWG0609161	
Benzo(b)fluoranthene	11 JD	13	6.3	2	06/08/06	06/11/06	KWG0609161	
Benzo(k)fluoranthene	ND U	13	6.3	2	06/08/06	06/11/06	KWG0609161	
Benzo(a)pyrene	5.6 JD	13	4.1	2	06/08/06	06/11/06	KWG0609161	
Indeno(1,2,3-cd)pyrene	ND U	13	4.8	2	06/08/06	06/11/06	KWG0609161	
Dibenz(a,h)anthracene	ND U	13	5.6	2	06/08/06	06/11/06	KWG0609161	
Benzo(g,h,i)perylene	7.3 JD	13	5.8	2	06/08/06	06/11/06	KWG0609161	

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Collected: 06/02/2006
Date Received: 06/06/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: NWC-1-2W
Lab Code: K0604574-007

Units: ug/Kg
Basis: Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	30	12-88	06/11/06	Acceptable
Phenol-d6	53	20-101	06/11/06	Acceptable
Nitrobenzene-d5	38	10-97	06/11/06	Acceptable
2-Fluorobiphenyl	56	10-107	06/11/06	Acceptable
2,4,6-Tribromophenol	54	16-122	06/11/06	Acceptable
Terphenyl-d14	70	28-135	06/11/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K0604574
 Date Collected: 06/05/2006
 Date Received: 06/06/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name:	NWC-1-12W	Units:	ug/Kg
Lab Code:	K0604574-010	Basis:	Dry
Extraction Method:	EPA 3541	Level:	Low
Analysis Method:	8270C		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Bis(2-chloroethyl) Ether	ND U	12	5.6	2	06/08/06	06/11/06	KWG0609161	
Phenol	7.8 JD	35	4.4	2	06/08/06	06/11/06	KWG0609161	
2-Chlorophenol	ND U	12	4.0	2	06/08/06	06/11/06	KWG0609161	
1,3-Dichlorobenzene	ND U	12	3.7	2	06/08/06	06/11/06	KWG0609161	
1,4-Dichlorobenzene	ND U	12	4.4	2	06/08/06	06/11/06	KWG0609161	
1,2-Dichlorobenzene	ND U	12	3.0	2	06/08/06	06/11/06	KWG0609161	
Benzyl Alcohol	ND U	12	8.6	2	06/08/06	06/11/06	KWG0609161	
Bis(2-chloroisopropyl) Ether	ND U	12	2.8	2	06/08/06	06/11/06	KWG0609161	
2-Methylphenol	ND U	12	7.9	2	06/08/06	06/11/06	KWG0609161	
Hexachloroethane	ND U	12	5.1	2	06/08/06	06/11/06	KWG0609161	
N-Nitrosodi-n-propylamine	ND U	12	7.4	2	06/08/06	06/11/06	KWG0609161	
4-Methylphenol†	ND U	12	6.7	2	06/08/06	06/11/06	KWG0609161	
Nitrobenzene	ND U	12	4.7	2	06/08/06	06/11/06	KWG0609161	
Isophorone	ND U	12	3.7	2	06/08/06	06/11/06	KWG0609161	
2-Nitrophenol	ND U	12	6.0	2	06/08/06	06/11/06	KWG0609161	
2,4-Dimethylphenol	ND U	58	13	2	06/08/06	06/11/06	KWG0609161	
Bis(2-chloroethoxy)methane	ND U	12	3.0	2	06/08/06	06/11/06	KWG0609161	
2,4-Dichlorophenol	ND U	12	4.2	2	06/08/06	06/11/06	KWG0609161	
Benzoic Acid	ND U	240	230	2	06/08/06	06/11/06	KWG0609161	*
1,2,4-Trichlorobenzene	ND U	12	3.5	2	06/08/06	06/11/06	KWG0609161	
Naphthalene	9.6 JD	12	3.0	2	06/08/06	06/11/06	KWG0609161	
4-Chloroaniline	ND U	12	4.9	2	06/08/06	06/11/06	KWG0609161	
Hexachlorobutadiene	ND U	12	3.3	2	06/08/06	06/11/06	KWG0609161	
4-Chloro-3-methylphenol	ND U	12	4.9	2	06/08/06	06/11/06	KWG0609161	
2-Methylnaphthalene	10 JD	12	2.8	2	06/08/06	06/11/06	KWG0609161	
Hexachlorocyclopentadiene	ND U	58	35	2	06/08/06	06/11/06	KWG0609161	
2,4,6-Trichlorophenol	ND U	12	4.2	2	06/08/06	06/11/06	KWG0609161	
2,4,5-Trichlorophenol	ND U	12	7.0	2	06/08/06	06/11/06	KWG0609161	
2-Chloronaphthalene	ND U	12	8.3	2	06/08/06	06/11/06	KWG0609161	
2-Nitroaniline	ND U	24	6.3	2	06/08/06	06/11/06	KWG0609161	
Acenaphthylene	3.7 JD	12	3.3	2	06/08/06	06/11/06	KWG0609161	
Dimethyl Phthalate	ND U	12	4.2	2	06/08/06	06/11/06	KWG0609161	
2,6-Dinitrotoluene	ND U	12	6.5	2	06/08/06	06/11/06	KWG0609161	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Collected: 06/05/2006
Date Received: 06/06/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: NWC-1-12W **Units:** ug/Kg
Lab Code: K0604574-010 **Basis:** Dry
Extraction Method: EPA 3541 **Level:** Low
Analysis Method: 8270C

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Acenaphthene	ND U	12	2.4	2	06/08/06	06/11/06	KWG0609161	
3-Nitroaniline	ND U	24	6.0	2	06/08/06	06/11/06*	KWG0609161	
2,4-Dinitrophenol	ND U	240	83	2	06/08/06	06/11/06	KWG0609161	
Dibenzofuran	4.1 JD	12	3.0	2	06/08/06	06/11/06	KWG0609161	
4-Nitrophenol	ND U	120	70	2	06/08/06	06/11/06	KWG0609161	
2,4-Dinitrotoluene	ND U	12	6.5	2	06/08/06	06/11/06	KWG0609161	
Fluorene	ND U	12	4.0	2	06/08/06	06/11/06	KWG0609161	
4-Chlorophenyl Phenyl Ether	ND U	12	4.7	2	06/08/06	06/11/06	KWG0609161	
Diethyl Phthalate	ND U	12	8.1	2	06/08/06	06/11/06	KWG0609161	
4-Nitroaniline	ND U	24	7.9	2	06/08/06	06/11/06	KWG0609161	
2-Methyl-4,6-dinitrophenol	ND U	120	4.0	2	06/08/06	06/11/06	KWG0609161	
N-Nitrosodiphenylamine	ND U	12	5.1	2	06/08/06	06/11/06	KWG0609161	
4-Bromophenyl Phenyl Ether	ND U	12	3.3	2	06/08/06	06/11/06	KWG0609161	
Hexachlorobenzene	ND U	12	4.9	2	06/08/06	06/11/06	KWG0609161	
Pentachlorophenol	190 D	120	20	2	06/08/06	06/11/06	KWG0609161	
Phenanthrene	36 D	12	3.0	2	06/08/06	06/11/06	KWG0609161	
Anthracene	7.5 JD	12	3.3	2	06/08/06	06/11/06	KWG0609161	
Di-n-butyl Phthalate	9.6 JD	12	6.0	2	06/08/06	06/11/06	KWG0609161	
Fluoranthene	97 D	12	5.1	2	06/08/06	06/11/06	KWG0609161	
Pyrene	95 D	12	3.0	2	06/08/06	06/11/06	KWG0609161	
Butyl Benzyl Phthalate	23 D	12	3.5	2	06/08/06	06/11/06	KWG0609161	
3,3'-Dichlorobenzidine	ND U	120	8.6	2	06/08/06	06/11/06	KWG0609161	
Benz(a)anthracene	55 D	12	3.3	2	06/08/06	06/11/06	KWG0609161	
Chrysene	79 D	12	3.3	2	06/08/06	06/11/06	KWG0609161	
Bis(2-ethylhexyl) Phthalate	29 JD	240	4.0	2	06/08/06	06/11/06	KWG0609161	
Di-n-octyl Phthalate	ND U	12	2.8	2	06/08/06	06/11/06	KWG0609161	
Benzo(b)fluoranthene	97 D	12	5.8	2	06/08/06	06/11/06	KWG0609161	
Benzo(k)fluoranthene	31 D	12	5.8	2	06/08/06	06/11/06	KWG0609161	
Benzo(a)pyrene	75 D	12	3.7	2	06/08/06	06/11/06	KWG0609161	
Indeno(1,2,3-cd)pyrene	63 D	12	4.4	2	06/08/06	06/11/06	KWG0609161	
Dibenz(a,h)anthracene	13 D	12	5.1	2	06/08/06	06/11/06	KWG0609161	
Benzo(g,h,i)perylene	68 D	12	5.3	2	06/08/06	06/11/06	KWG0609161	

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Collected: 06/05/2006
Date Received: 06/06/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: NWC-1-12W **Units:** ug/Kg
Lab Code: K0604574-010 **Basis:** Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	28	12-88	06/11/06	Acceptable
Phenol-d6	51	20-101	06/11/06	Acceptable
Nitrobenzene-d5	37	10-97	06/11/06	Acceptable
2-Fluorobiphenyl	56	10-107	06/11/06	Acceptable
2,4,6-Tribromophenol	62	16-122	06/11/06	Acceptable
Terphenyl-d14	79	28-135	06/11/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K0604574
 Date Collected: 06/05/2006
 Date Received: 06/06/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name:	NWC-2-39W	Units:	ug/Kg
Lab Code:	K0604574-011	Basis:	Dry
Extraction Method:	EPA 3541	Level:	Low
Analysis Method:	8270C		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Bis(2-chloroethyl) Ether	ND U	12	5.8	2	06/08/06	06/11/06	KWG0609161	
Phenol	ND U	36	4.6	2	06/08/06	06/11/06	KWG0609161	
2-Chlorophenol	ND U	12	4.1	2	06/08/06	06/11/06	KWG0609161	
1,3-Dichlorobenzene	ND U	12	3.9	2	06/08/06	06/11/06	KWG0609161	
1,4-Dichlorobenzene	ND U	12	4.6	2	06/08/06	06/11/06	KWG0609161	
1,2-Dichlorobenzene	ND U	12	3.2	2	06/08/06	06/11/06	KWG0609161	
Benzyl Alcohol	ND U	12	8.9	2	06/08/06	06/11/06	KWG0609161	
Bis(2-chloroisopropyl) Ether	ND U	12	2.9	2	06/08/06	06/11/06	KWG0609161	
2-Methylphenol	ND U	12	8.2	2	06/08/06	06/11/06	KWG0609161	
Hexachloroethane	ND U	12	5.3	2	06/08/06	06/11/06	KWG0609161	
N-Nitrosodi-n-propylamine	ND U	12	7.7	2	06/08/06	06/11/06	KWG0609161	
4-Methylphenol†	ND U	12	7.0	2	06/08/06	06/11/06	KWG0609161	
Nitrobenzene	ND U	12	4.8	2	06/08/06	06/11/06	KWG0609161	
Isophorone	ND U	12	3.9	2	06/08/06	06/11/06	KWG0609161	
2-Nitrophenol	ND U	12	6.3	2	06/08/06	06/11/06	KWG0609161	
2,4-Dimethylphenol	ND U	60	14	2	06/08/06	06/11/06	KWG0609161	
Bis(2-chloroethoxy)methane	ND U	12	3.2	2	06/08/06	06/11/06	KWG0609161	
2,4-Dichlorophenol	ND U	12	4.3	2	06/08/06	06/11/06	KWG0609161	
Benzoic Acid	ND U	240	230	2	06/08/06	06/11/06	KWG0609161	*
1,2,4-Trichlorobenzene	ND U	12	3.6	2	06/08/06	06/11/06	KWG0609161	
Naphthalene	ND U	12	3.2	2	06/08/06	06/11/06	KWG0609161	
4-Chloroaniline	ND U	12	5.1	2	06/08/06	06/11/06	KWG0609161	
Hexachlorobutadiene	ND U	12	3.4	2	06/08/06	06/11/06	KWG0609161	
4-Chloro-3-methylphenol	ND U	12	5.1	2	06/08/06	06/11/06	KWG0609161	
2-Methylnaphthalene	ND U	12	2.9	2	06/08/06	06/11/06	KWG0609161	
Hexachlorocyclopentadiene	ND U	60	36	2	06/08/06	06/11/06	KWG0609161	
2,4,6-Trichlorophenol	ND U	12	4.3	2	06/08/06	06/11/06	KWG0609161	
2,4,5-Trichlorophenol	ND U	12	7.2	2	06/08/06	06/11/06	KWG0609161	
2-Chloronaphthalene	ND U	12	8.6	2	06/08/06	06/11/06	KWG0609161	
2-Nitroaniline	ND U	24	6.5	2	06/08/06	06/11/06	KWG0609161	
Acenaphthylene	ND U	12	3.4	2	06/08/06	06/11/06	KWG0609161	
Dimethyl Phthalate	ND U	12	4.3	2	06/08/06	06/11/06	KWG0609161	
2,6-Dinitrotoluene	ND U	12	6.7	2	06/08/06	06/11/06	KWG0609161	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K0604574
 Date Collected: 06/05/2006
 Date Received: 06/06/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: NWC-2-39W Units: ug/Kg
 Lab Code: K0604574-011 Basis: Dry
 Extraction Method: EPA 3541 Level: Low
 Analysis Method: 8270C

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Acenaphthene	ND U	12	2.4	2	06/08/06	06/11/06	KWG0609161	
3-Nitroaniline	ND U	24	6.3	2	06/08/06	06/11/06	KWG0609161	
2,4-Dinitrophenol	ND U	240	86	2	06/08/06	06/11/06	KWG0609161	
Dibenzofuran	ND U	12	3.2	2	06/08/06	06/11/06	KWG0609161	
4-Nitrophenol	ND U	120	72	2	06/08/06	06/11/06	KWG0609161	
2,4-Dinitrotoluene	ND U	12	6.7	2	06/08/06	06/11/06	KWG0609161	
Fluorene	ND U	12	4.1	2	06/08/06	06/11/06	KWG0609161	
4-Chlorophenyl Phenyl Ether	ND U	12	4.8	2	06/08/06	06/11/06	KWG0609161	
Diethyl Phthalate	ND U	12	8.4	2	06/08/06	06/11/06	KWG0609161	
4-Nitroaniline	ND U	24	8.2	2	06/08/06	06/11/06	KWG0609161	
2-Methyl-4,6-dinitrophenol	ND U	120	4.1	2	06/08/06	06/11/06	KWG0609161	
N-Nitrosodiphenylamine	ND U	12	5.3	2	06/08/06	06/11/06	KWG0609161	
4-Bromophenyl Phenyl Ether	ND U	12	3.4	2	06/08/06	06/11/06	KWG0609161	
Hexachlorobenzene	ND U	12	5.1	2	06/08/06	06/11/06	KWG0609161	
Pentachlorophenol	33 JD	120	21	2	06/08/06	06/11/06	KWG0609161	
Phenanthrene	4.1 JD	12	3.2	2	06/08/06	06/11/06	KWG0609161	
Anthracene	ND U	12	3.4	2	06/08/06	06/11/06	KWG0609161	
Di-n-butyl Phthalate	11 JD	12	6.3	2	06/08/06	06/11/06	KWG0609161	
Fluoranthene	6.1 JD	12	5.3	2	06/08/06	06/11/06	KWG0609161	
Pyrene	6.9 JD	12	3.2	2	06/08/06	06/11/06	KWG0609161	
Butyl Benzyl Phthalate	ND U	12	3.6	2	06/08/06	06/11/06	KWG0609161	
3,3'-Dichlorobenzidine	ND U	120	8.9	2	06/08/06	06/11/06	KWG0609161	
Benz(a)anthracene	ND U	12	3.4	2	06/08/06	06/11/06	KWG0609161	
Chrysene	5.6 JD	12	3.4	2	06/08/06	06/11/06	KWG0609161	
Bis(2-ethylhexyl) Phthalate	16 JD	240	4.1	2	06/08/06	06/11/06	KWG0609161	
Di-n-octyl Phthalate	ND U	12	2.9	2	06/08/06	06/11/06	KWG0609161	
Benzo(b)fluoranthene	9.8 JD	12	6.0	2	06/08/06	06/11/06	KWG0609161	
Benzo(k)fluoranthene	ND U	12	6.0	2	06/08/06	06/11/06	KWG0609161	
Benzo(a)pyrene	4.0 JD	12	3.9	2	06/08/06	06/11/06	KWG0609161	
Indeno(1,2,3-cd)pyrene	5.4 JD	12	4.6	2	06/08/06	06/11/06	KWG0609161	
Dibenzo(a,h)anthracene	ND U	12	5.3	2	06/08/06	06/11/06	KWG0609161	
Benzo(g,h,i)perylene	ND U	12	5.5	2	06/08/06	06/11/06	KWG0609161	

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K0604574
 Date Collected: 06/05/2006
 Date Received: 06/06/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: NWC-2-39W Units: ug/Kg
 Lab Code: K0604574-011 Basis: Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	33	12-88	06/11/06	Acceptable
Phenol-d6	55	20-101	06/11/06	Acceptable
Nitrobenzene-d5	44	10-97	06/11/06	Acceptable
2-Fluorobiphenyl	50	10-107	06/11/06	Acceptable
2,4,6-Tribromophenol	49	16-122	06/11/06	Acceptable
Terphenyl-d14	60	28-135	06/11/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K0604574
 Date Collected: NA
 Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	Units:	ug/Kg
Lab Code:	KWG0609161-9	Basis:	Dry
Extraction Method:	EPA 3541	Level:	Low
Analysis Method:	8270C		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Bis(2-chloroethyl) Ether	ND U	5.0	2.4	1	06/08/06	06/11/06	KWG0609161	
Phenol	ND U	15	1.9	1	06/08/06	06/11/06	KWG0609161	
2-Chlorophenol	ND U	5.0	1.7	1	06/08/06	06/11/06	KWG0609161	
1,3-Dichlorobenzene	ND U	5.0	1.6	1	06/08/06	06/11/06	KWG0609161	
1,4-Dichlorobenzene	ND U	5.0	1.9	1	06/08/06	06/11/06	KWG0609161	
1,2-Dichlorobenzene	ND U	5.0	1.3	1	06/08/06	06/11/06	KWG0609161	
Benzyl Alcohol	ND U	5.0	3.7	1	06/08/06	06/11/06	KWG0609161	
Bis(2-chloroisopropyl) Ether	ND U	5.0	1.2	1	06/08/06	06/11/06	KWG0609161	
2-Methylphenol	ND U	5.0	3.4	1	06/08/06	06/11/06	KWG0609161	
Hexachloroethane	ND U	5.0	2.2	1	06/08/06	06/11/06	KWG0609161	
N-Nitrosodi-n-propylamine	ND U	5.0	3.2	1	06/08/06	06/11/06	KWG0609161	
4-Methylphenol†	ND U	5.0	2.9	1	06/08/06	06/11/06	KWG0609161	
Nitrobenzene	ND U	5.0	2.0	1	06/08/06	06/11/06	KWG0609161	
Isophorone	ND U	5.0	1.6	1	06/08/06	06/11/06	KWG0609161	
2-Nitrophenol	ND U	5.0	2.6	1	06/08/06	06/11/06	KWG0609161	
2,4-Dimethylphenol	ND U	25	5.5	1	06/08/06	06/11/06	KWG0609161	
Bis(2-chloroethoxy)methane	ND U	5.0	1.3	1	06/08/06	06/11/06	KWG0609161	
2,4-Dichlorophenol	ND U	5.0	1.8	1	06/08/06	06/11/06	KWG0609161	
Benzoic Acid	ND U	100	96	1	06/08/06	06/11/06	KWG0609161	*
1,2,4-Trichlorobenzene	ND U	5.0	1.5	1	06/08/06	06/11/06	KWG0609161	
Naphthalene	ND U	5.0	1.3	1	06/08/06	06/11/06	KWG0609161	
4-Chloroaniline	ND U	5.0	2.1	1	06/08/06	06/11/06	KWG0609161	
Hexachlorobutadiene	ND U	5.0	1.4	1	06/08/06	06/11/06	KWG0609161	
4-Chloro-3-methylphenol	ND U	5.0	2.1	1	06/08/06	06/11/06	KWG0609161	
2-Methylnaphthalene	ND U	5.0	1.2	1	06/08/06	06/11/06	KWG0609161	
Hexachlorocyclopentadiene	ND U	25	15	1	06/08/06	06/11/06	KWG0609161	
2,4,6-Trichlorophenol	ND U	5.0	1.8	1	06/08/06	06/11/06	KWG0609161	
2,4,5-Trichlorophenol	ND U	5.0	3.0	1	06/08/06	06/11/06	KWG0609161	
2-Chloronaphthalene	ND U	5.0	3.6	1	06/08/06	06/11/06	KWG0609161	
2-Nitroaniline	ND U	10	2.7	1	06/08/06	06/11/06	KWG0609161	
Acenaphthylene	ND U	5.0	1.4	1	06/08/06	06/11/06	KWG0609161	
Dimethyl Phthalate	ND U	5.0	1.8	1	06/08/06	06/11/06	KWG0609161	
2,6-Dinitrotoluene	ND U	5.0	2.8	1	06/08/06	06/11/06	KWG0609161	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	Units:	ug/Kg
Lab Code:	KWG0609161-9	Basis:	Dry
Extraction Method:	EPA 3541	Level:	Low
Analysis Method:	8270C		

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Acenaphthene	ND U	5.0	1.0	1	06/08/06	06/11/06	KWG0609161	
3-Nitroaniline	ND U	10	2.6	1	06/08/06	06/11/06	KWG0609161	
2,4-Dinitrophenol	ND U	100	36	1	06/08/06	06/11/06	KWG0609161	
Dibenzofuran	ND U	5.0	1.3	1	06/08/06	06/11/06	KWG0609161	
4-Nitrophenol	ND U	50	30	1	06/08/06	06/11/06	KWG0609161	
2,4-Dinitrotoluene	ND U	5.0	2.8	1	06/08/06	06/11/06	KWG0609161	
Fluorene	ND U	5.0	1.7	1	06/08/06	06/11/06	KWG0609161	
4-Chlorophenyl Phenyl Ether	ND U	5.0	2.0	1	06/08/06	06/11/06	KWG0609161	
Diethyl Phthalate	ND U	5.0	3.5	1	06/08/06	06/11/06	KWG0609161	
4-Nitroaniline	ND U	10	3.4	1	06/08/06	06/11/06	KWG0609161	
2-Methyl-4,6-dinitrophenol	ND U	50	1.7	1	06/08/06	06/11/06	KWG0609161	
N-Nitrosodiphenylamine	ND U	5.0	2.2	1	06/08/06	06/11/06	KWG0609161	
4-Bromophenyl Phenyl Ether	ND U	5.0	1.4	1	06/08/06	06/11/06	KWG0609161	
Hexachlorobenzene	ND U	5.0	2.1	1	06/08/06	06/11/06	KWG0609161	
Pentachlorophenol	ND U	50	8.5	1	06/08/06	06/11/06	KWG0609161	
Phenanthrene	ND U	5.0	1.3	1	06/08/06	06/11/06	KWG0609161	
Anthracene	ND U	5.0	1.4	1	06/08/06	06/11/06	KWG0609161	
Di-n-butyl Phthalate	2.7 J	5.0	2.6	1	06/08/06	06/11/06	KWG0609161	
Fluoranthene	ND U	5.0	2.2	1	06/08/06	06/11/06	KWG0609161	
Pyrene	ND U	5.0	1.3	1	06/08/06	06/11/06	KWG0609161	
Butyl Benzyl Phthalate	ND U	5.0	1.5	1	06/08/06	06/11/06	KWG0609161	
3,3'-Dichlorobenzidine	ND U	50	3.7	1	06/08/06	06/11/06	KWG0609161	
Benz(a)anthracene	ND U	5.0	1.4	1	06/08/06	06/11/06	KWG0609161	
Chrysene	ND U	5.0	1.4	1	06/08/06	06/11/06	KWG0609161	
Bis(2-ethylhexyl) Phthalate	2.4 J	100	1.7	1	06/08/06	06/11/06	KWG0609161	
Di-n-octyl Phthalate	ND U	5.0	1.2	1	06/08/06	06/11/06	KWG0609161	
Benzo(b)fluoranthene	ND U	5.0	2.5	1	06/08/06	06/11/06	KWG0609161	
Benzo(k)fluoranthene	ND U	5.0	2.5	1	06/08/06	06/11/06	KWG0609161	
Benzo(a)pyrene	ND U	5.0	1.6	1	06/08/06	06/11/06	KWG0609161	
Indeno(1,2,3-cd)pyrene	ND U	5.0	1.9	1	06/08/06	06/11/06	KWG0609161	
Dibenz(a,h)anthracene	ND U	5.0	2.2	1	06/08/06	06/11/06	KWG0609161	
Benzo(g,h,i)perylene	ND U	5.0	2.3	1	06/08/06	06/11/06	KWG0609161	

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K0604574
 Date Collected: NA
 Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank Units: ug/Kg
 Lab Code: KWG0609161-9 Basis: Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	33	12-88	06/11/06	Acceptable
Phenol-d6	51	20-101	06/11/06	Acceptable
Nitrobenzene-d5	39	10-97	06/11/06	Acceptable
2-Fluorobiphenyl	46	10-107	06/11/06	Acceptable
2,4,6-Tribromophenol	60	16-122	06/11/06	Acceptable
Terphenyl-d14	67	28-135	06/11/06	Acceptable

† Analyte Comments

4-Methylphenol

This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K0604574

Surrogate Recovery Summary
Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3541
 Analysis Method: 8270C

Units: PERCENT
 Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>	<u>Sur4</u>	<u>Sur5</u>	<u>Sur6</u>
NWC-1-22W	K0604574-006	33 D	53 D	38 D	53 D	55 D	60 D
NWC-1-2W	K0604574-007	30 D	53 D	38 D	56 D	54 D	70 D
NWC-1-12W	K0604574-010	28 D	51 D	37 D	56 D	62 D	79 D
NWC-2-39W	K0604574-011	33 D	55 D	44 D	50 D	49 D	60 D
Method Blank	KWG0609161-9	33	51	39	46	60	67
Batch QC	K0604453-001	36	56	54	51	55	57
Batch QCMS	KWG0609161-13	44	64	58	61	70	69
Batch QCDMS	KWG0609161-14	43	64	59	61	69	65
Lab Control Sample	KWG0609161-10	33	48	45	48	52	57
Duplicate Lab Control Sample	KWG0609161-11	34	53	46	46	59	68

Surrogate Recovery Control Limits (%)

Sur1 = 2-Fluorophenol	12-88	Sur5 = 2,4,6-Tribromophenol	16-122
Sur2 = Phenol-d6	20-101	Sur6 = Terphenyl-d14	28-135
Sur3 = Nitrobenzene-d5	10-97		
Sur4 = 2-Fluorobiphenyl	10-107		

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
 Date Analyzed: 06/11/2006
 Time Analyzed: 06:34

**Internal Standard Area and RT Summary
Semi-Volatile Organic Compounds by GC/MS**

File ID: J:\MS10\DATA\061106\0611F001.D
 Instrument ID: MS10
 Analysis Method: 8270C

Lab Code: KWG0609518-2
 Analysis Lot: KWG0609518

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
Results =>	249,856	8.60	832,649	10.52	446,535	13.32
Upper Limit =>	499,712	9.10	1,665,298	11.02	893,070	13.82
Lower Limit =>	124,928	8.10	416,325	10.02	223,268	12.82
ICAL Result =>	335,999	8.62	1,091,617	10.55	580,767	13.34

Associated Analyses

Method Blank	KWG0609161-9	262,124	8.60	905,187	10.52	469,858	13.31
Lab Control Sample	KWG0609161-10	255,768	8.60	919,094	10.52	480,142	13.32
Duplicate Lab Control Sample	KWG0609161-11	255,685	8.60	914,594	10.52	489,659	13.32
Batch QCMS	KWG0609161-13	258,262	8.60	879,486	10.52	448,348	13.31
Batch QCDMS	KWG0609161-14	265,396	8.60	929,502	10.52	485,977	13.32
Batch QC	K0604453-001	271,195	8.61	947,289	10.52	519,253	13.32
NWC-1-22W	K0604574-006	267,710	8.61	941,581	10.53	464,108	13.33
NWC-1-2W	K0604574-007	286,837	8.61	908,023	10.53	439,974	13.33
NWC-1-12W	K0604574-010	268,747	8.62	885,215	10.54	439,738	13.34
NWC-2-39W	K0604574-011	269,684	8.62	951,021	10.54	510,150	13.34

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
 Date Analyzed: 06/11/2006
 Time Analyzed: 06:34

**Internal Standard Area and RT Summary
 Semi-Volatile Organic Compounds by GC/MS**

File ID: J:\MS10\DATA\061106\0611F001.D
 Instrument ID: MS10
 Analysis Method: 8270C

Lab Code: KWG0609518-2
 Analysis Lot: KWG0609518

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
Results ==>	709,869	15.71	694,819	20.08	468,688	23.60
Upper Limit ==>	1,419,738	16.21	1,389,638	20.58	937,376	24.10
Lower Limit ==>	354,935	15.21	347,410	19.58	234,344	23.10
ICAL Result ==>	951,084	15.74	828,513	20.11	602,544	23.65

Associated Analyses

Method Blank	KWG0609161-9	728,015	15.71	688,499	20.06	469,162	23.59
Lab Control Sample	KWG0609161-10	758,950	15.71	686,793	20.07	485,299	23.60
Duplicate Lab Control Sample	KWG0609161-11	762,326	15.70	671,639	20.07	494,939	23.60
Batch QCMS	KWG0609161-13	733,431	15.71	662,505	20.07	492,137	23.61
Batch QCDMS	KWG0609161-14	767,003	15.71	692,279	20.08	499,380	23.61
Batch QC	K0604453-001	790,971	15.71	733,688	20.07	533,155	23.62
NWC-1-22W	K0604574-006	692,315	15.73	682,824	20.10	485,996	23.65
NWC-1-2W	K0604574-007	734,032	15.73	641,272	20.10	472,323	23.69
NWC-1-12W	K0604574-010	684,198	15.74	638,310	20.12	466,181	23.71
NWC-2-39W	K0604574-011	745,149	15.74	686,981	20.11	510,947	23.67

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K0604574
 Date Extracted: 06/08/2006
 Date Analyzed: 06/11/2006

Matrix Spike/Duplicate Matrix Spike Summary
Semi-Volatile Organic Compounds by GC/MS

Sample Name: Batch QC
 Lab Code: K0604453-001
 Extraction Method: EPA 3541
 Analysis Method: 8270C

Units: ug/Kg
 Basis: Dry
 Level: Low
 Extraction Lot: KWG0609161

Analyte Name	Sample Result	Batch QCMS KWG0609161-13 Matrix Spike			Batch QCDMS KWG0609161-14 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Phenol	7.7	157	250	60	153	249	58	14-114	3	40
2-Chlorophenol	ND	142	250	57	135	249	54	10-116	5	40
1,4-Dichlorobenzene	ND	86.1	250	35	92.5	249	37	10-72	7	40
N-Nitrosodi-n-propylamine	ND	162	250	65	159	249	64	18-111	2	40
1,2,4-Trichlorobenzene	ND	129	250	52	129	249	52	10-80	0	40
4-Chloro-3-methylphenol	ND	166	250	66	164	249	66	17-120	1	40
Acenaphthene	ND	164	250	66	157	249	63	10-132	4	40
4-Nitrophenol	ND	187	250	75	167	249	67	22-128	12	40
2,4-Dinitrotoluene	ND	187	250	75	181	249	73	30-120	4	40
Pentachlorophenol	ND	201	250	80	181	249	73	10-145	10	40
Pyrene	8.5	190	250	73	175	249	67	10-136	8	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K0604574
 Date Extracted: 06/08/2006
 Date Analyzed: 06/11/2006

**Lab Control Spike/Duplicate Lab Control Spike Summary
 Semi-Volatile Organic Compounds by GC/MS**

Extraction Method: EPA 3541
 Analysis Method: 8270C

Units: ug/Kg

Basis: Dry

Level: Low

Extraction Lot: KWG0609161

Analyte Name	Lab Control Sample KWG0609161-10			Duplicate Lab Control Sample KWG0609161-11			%Rec Limits	RPD	RPD Limit			
	Lab Control Spike			Duplicate Lab Control Spike								
	Result	Expected	%Rec	Result	Expected	%Rec						
Bis(2-chloroethyl) Ether	113	250	45	113	250	45	41-89	0	40			
Phenol	130	250	52	132	250	53	35-102	1	40			
2-Chlorophenol	114	250	46	115	250	46	35-98	1	40			
1,3-Dichlorobenzene	91.9	250	37	91.4	250	37	36-89	1	40			
1,4-Dichlorobenzene	93.9	250	38	95.7	250	38	37-87	2	40			
1,2-Dichlorobenzene	102	250	41	108	250	43	39-91	5	40			
Benzyl Alcohol	160	250	64	162	250	65	35-88	1	40			
Bis(2-chloroisopropyl) Ether	116	250	46	124	250	49	35-90	6	40			
2-Methylphenol	128	250	51	126	250	50	30-91	2	40			
Hexachloroethane	99.4	250	40	102	250	41	37-90	3	40			
N-Nitrosodi-n-propylamine	131	250	52	133	250	53	40-100	2	40			
4-Methylphenol	137	250	55	138	250	55	28-94	1	40			
Nitrobenzene	129	250	51	127	250	51	40-91	2	40			
Isophorone	131	250	53	129	250	51	47-101	2	40			
2-Nitrophenol	119	250	48	115	250	46	37-100	4	40			
2,4-Dimethylphenol	111	250	44	96.5	250	39	10-63	14	40			
Bis(2-chloroethoxy)methane	128	250	51	121	250	48	42-89	6	40			
2,4-Dichlorophenol	127	250	51	129	250	52	36-100	1	40			
Benzoic Acid	66.6	750	9 *	119	750	16	10-88	56 *	40			
1,2,4-Trichlorobenzene	108	250	43	110	250	44	40-91	2	40			
Naphthalene	112	250	45	115	250	46	41-90	3	40			
4-Chloroaniline	105	250	42	102	250	41	26-78	3	40			
Hexachlorobutadiene	102	250	41	103	250	41	37-92	2	40			
4-Chloro-3-methylphenol	135	250	54	133	250	53	36-102	1	40			
2-Methylnaphthalene	122	250	49	121	250	48	41-87	1	40			
Hexachlorocyclopentadiene	82.1	250	33	87.0	250	35	21-98	6	40			
2,4,6-Trichlorophenol	137	250	55	132	250	53	37-100	4	40			
2,4,5-Trichlorophenol	136	250	55	136	250	55	37-103	0	40			
2-Chloronaphthalene	124	250	50	125	250	50	40-94	1	40			
2-Nitroaniline	138	250	55	136	250	54	44-96	1	40			
Acenaphthylene	143	250	57	133	250	53	49-100	8	40			
Dimethyl Phthalate	140	250	56	140	250	56	48-99	0	40			
2,6-Dinitrotoluene	159	250	64	152	250	61	50-98	4	40			
Acenaphthene	142	250	57	131	250	52	44-92	8	40			
3-Nitroaniline	144	250	58	130	250	52	43-93	10	40			

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4
 Sample Matrix: Soil

Service Request: K0604574
 Date Extracted: 06/08/2006
 Date Analyzed: 06/11/2006

**Lab Control Spike/Duplicate Lab Control Spike Summary
 Semi-Volatile Organic Compounds by GC/MS**

Extraction Method: EPA 3541
 Analysis Method: 8270C

Units: ug/Kg

Basis: Dry

Level: Low

Extraction Lot: KWG0609161

Analyte Name	Lab Control Sample KWG0609161-10			Duplicate Lab Control Sample KWG0609161-11			%Rec Limits	RPD	RPD Limit			
	Lab Control Spike			Duplicate Lab Control Spike								
	Result	Expected	%Rec	Result	Expected	%Rec						
2,4-Dinitrophenol	96.0	250	38	165	250	66	14-111	53 *	40			
Dibenzofuran	140	250	56	136	250	54	44-91	3	40			
4-Nitrophenol	129	250	52	148	250	59	35-120	13	40			
2,4-Dinitrotoluene	162	250	65	158	250	63	52-107	2	40			
Fluorene	139	250	56	138	250	55	46-97	1	40			
4-Chlorophenyl Phenyl Ether	141	250	56	134	250	54	44-97	5	40			
Diethyl Phthalate	139	250	56	146	250	58	48-107	4	40			
4-Nitroaniline	146	250	59	138	250	55	40-100	6	40			
2-Methyl-4,6-dinitrophenol	132	250	53	169	250	68	30-114	25	40			
N-Nitrosodiphenylamine	140	250	56	137	250	55	47-108	2	40			
4-Bromophenyl Phenyl Ether	146	250	59	142	250	57	47-96	3	40			
Hexachlorobenzene	149	250	60	146	250	58	46-103	2	40			
Pentachlorophenol	138	250	55	159	250	63	22-100	14	40			
Phenanthrene	159	250	63	154	250	61	50-96	3	40			
Anthracene	162	250	65	159	250	64	51-97	2	40			
Di-n-butyl Phthalate	173	250	69	182	250	73	51-111	5	40			
Fluoranthene	156	250	62	165	250	66	53-108	5	40			
Pyrene	165	250	66	176	250	70	50-108	6	40			
Butyl Benzyl Phthalate	162	250	65	179	250	71	48-119	10	40			
3,3'-Dichlorobenzidine	116	250	46	96.2	250	38	22-94	18	40			
Benz(a)anthracene	175	250	70	183	250	73	58-106	5	40			
Chrysene	172	250	69	183	250	73	57-111	6	40			
Bis(2-ethylhexyl) Phthalate	182	250	73	186	250	75	47-124	2	40			
Di-n-octyl Phthalate	174	250	70	180	250	72	41-123	3	40			
Benzo(b)fluoranthene	171	250	69	178	250	71	56-104	4	40			
Benzo(k)fluoranthene	180	250	72	180	250	72	58-106	0	40			
Benzo(a)pyrene	175	250	70	178	250	71	56-107	2	40			
Indeno(1,2,3-cd)pyrene	176	250	70	182	250	73	55-107	3	40			
Dibenz(a,h)anthracene	175	250	70	181	250	72	55-107	4	40			
Benzo(g,h,i)perylene	182	250	73	183	250	73	27-121	1	40			

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Extracted: 06/08/2006
Date Analyzed: 06/11/2006
Time Analyzed: 07:11

Method Blank Summary
Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: KWG0609161-9
Extraction Method: EPA 3541
Analysis Method: 8270C

File ID: J:\MS10\DATA\061106\0611F002.D
Instrument ID: MS10
Level: Low
Extraction Lot: KWG0609161

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG0609161-10	J:\MS10\DATA\061106\0611F003.D	06/11/06	07:48
Duplicate Lab Control Sample	KWG0609161-11	J:\MS10\DATA\061106\0611F004.D	06/11/06	08:26
Batch QCMS	KWG0609161-13	J:\MS10\DATA\061106\0611F005.D	06/11/06	09:04
Batch QCDMS	KWG0609161-14	J:\MS10\DATA\061106\0611F006.D	06/11/06	09:41
Batch QC	K0604453-001	J:\MS10\DATA\061106\0611F007.D	06/11/06	10:19
NWC-1-22W	K0604574-006	J:\MS10\DATA\061106\0611F014.D	06/11/06	14:15
NWC-1-2W	K0604574-007	J:\MS10\DATA\061106\0611F015.D	06/11/06	14:53
NWC-1-12W	K0604574-010	J:\MS10\DATA\061106\0611F016.D	06/11/06	15:31
NWC-2-39W	K0604574-011	J:\MS10\DATA\061106\0611F017.D	06/11/06	16:09

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574

Lab Control Sample/Duplicate Lab Control Sample Summary
Semi-Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: KWG0609161-10
File ID: J:\MS10\DATA\061106\0611F003.D
Instrument ID: MS10
Date Extracted: 06/08/2006
Date Analyzed: 06/11/2006
Time Analyzed: 07:48

Sample Name: Duplicate Lab Control Sample
Lab Code: KWG0609161-11
File ID: J:\MS10\DATA\061106\0611F004.D
Instrument ID: MS10
Date Extracted: 06/08/2006
Date Analyzed: 06/11/2006
Time Analyzed: 08:26

Extraction Method: EPA 3541
Analysis Method: 8270C

Level: Low
Extraction Lot: KWG0609161

These Lab Control Samples apply to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG0609161-9	J:\MS10\DATA\061106\0611F002.D	06/11/06	07:11
Batch QCMS	KWG0609161-13	J:\MS10\DATA\061106\0611F005.D	06/11/06	09:04
Batch QCDMS	KWG0609161-14	J:\MS10\DATA\061106\0611F006.D	06/11/06	09:41
Batch QC	K0604453-001	J:\MS10\DATA\061106\0611F007.D	06/11/06	10:19
NWC-1-22W	K0604574-006	J:\MS10\DATA\061106\0611F014.D	06/11/06	14:15
NWC-1-2W	K0604574-007	J:\MS10\DATA\061106\0611F015.D	06/11/06	14:53
NWC-1-12W	K0604574-010	J:\MS10\DATA\061106\0611F016.D	06/11/06	15:31
NWC-2-39W	K0604574-011	J:\MS10\DATA\061106\0611F017.D	06/11/06	16:09

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
 Date Analyzed: 06/11/2006
 Time Analyzed: 06:34

Tune Summary
Semi-Volatile Organic Compounds by GC/MS

File ID: J:\MS10\DATA\061106\0611T001.D
 Instrument ID: MS10
 Column:

Analysis Method: 8270C
 Analysis Lot: KWG0609518

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	30	80	60.7	187040	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	64.9	200209	PASS
70	69	0	2	0.0	0	PASS
127	198	25	75	45.4	140095	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	308275	PASS
199	198	5	9	6.8	20819	PASS
275	198	10	30	22.0	67797	PASS
365	198	1	100	2.8	8672	PASS
441	443	0	100	34.8	13184	PASS
442	198	40	110	64.7	199453	PASS
443	442	15	24	19.0	37898	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	KWG0609518-2	J:\MS10\DATA\061106\0611F001.D	06/11/2006	06:34	
Method Blank	KWG0609161-9	J:\MS10\DATA\061106\0611F002.D	06/11/2006	07:11	
Lab Control Sample	KWG0609161-10	J:\MS10\DATA\061106\0611F003.D	06/11/2006	07:48	
Duplicate Lab Control Sample	KWG0609161-11	J:\MS10\DATA\061106\0611F004.D	06/11/2006	08:26	
Batch QCMS	KWG0609161-13	J:\MS10\DATA\061106\0611F005.D	06/11/2006	09:04	
Batch QCDMS	KWG0609161-14	J:\MS10\DATA\061106\0611F006.D	06/11/2006	09:41	
Batch QC	K0604453-001	J:\MS10\DATA\061106\0611F007.D	06/11/2006	10:19	
NWC-1-22W	K0604574-006	J:\MS10\DATA\061106\0611F014.D	06/11/2006	14:15	
NWC-1-2W	K0604574-007	J:\MS10\DATA\061106\0611F015.D	06/11/2006	14:53	
NWC-1-12W	K0604574-010	J:\MS10\DATA\061106\0611F016.D	06/11/2006	15:31	
NWC-2-39W	K0604574-011	J:\MS10\DATA\061106\0611F017.D	06/11/2006	16:09	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
 Calibration Date: 05/11/2006

Initial Calibration Summary
 Semi-Volatile Organic Compounds by GC/MS

Calibration ID: CAL5348
 Instrument ID: MS10

Column: MS

Level ID	File ID	Level ID	File ID
A	J:\MS10\DATA\051106\0511F003.D	F	J:\MS10\DATA\051106\0511F008.D
B	J:\MS10\DATA\051106\0511F004.D	G	J:\MS10\DATA\051106\0511F009.D
C	J:\MS10\DATA\051106\0511F005.D	H	J:\MS10\DATA\051106\0511F010.D
D	J:\MS10\DATA\051106\0511F006.D	I	J:\MS10\DATA\051106\0511F011.D
E	J:\MS10\DATA\051106\0511F007.D		

Analyte Name	Level														
	ID	Amt	RRF												
Bis(2-chloroethyl) Ether	A	100	1.48	B	200	1.27	C	500	1.34	D	1000	1.29	E	2000	1.34
	F	3000	1.22	G	4000	1.23	H	5000	1.16	I	6000	1.14			
† Phenol	A	100	1.90	B	200	1.57	C	500	1.63	D	1000	1.59	E	2000	1.50
	F	3000	1.33	G	4000	1.37	H	5000	1.28	I	6000	1.26			
2-Chlorophenol	A	100	1.38	B	200	1.27	C	500	1.31	D	1000	1.30	E	2000	1.34
	F	3000	1.28	G	4000	1.28	H	5000	1.20	I	6000	1.21			
1,3-Dichlorobenzene	A	100	1.67	B	200	1.51	C	500	1.53	D	1000	1.51	E	2000	1.52
	F	3000	1.38	G	4000	1.42	H	5000	1.38	I	6000	1.36			
† 1,4-Dichlorobenzene	A	100	1.71	B	200	1.56	C	500	1.51	D	1000	1.50	E	2000	1.51
	F	3000	1.37	G	4000	1.41	H	5000	1.36	I	6000	1.34			
1,2-Dichlorobenzene	A	100	1.62	B	200	1.39	C	500	1.38	D	1000	1.37	E	2000	1.30
	F	3000	1.20	G	4000	1.23	H	5000	1.18	I	6000	1.14			
Benzyl Alcohol	A	100	0.548	B	200	0.557	C	500	0.615	D	1000	0.623	E	2000	0.618
	F	3000	0.579	G	4000	0.595	H	5000	0.567	I	6000	0.561			
Bis(2-chloroisopropyl) Ether	A	100	2.86	B	200	2.52	C	500	2.50	D	1000	2.41	E	2000	2.25
	F	3000	2.10	G	4000	2.15	H	5000	2.03	I	6000	1.98			
2-Methylphenol	A	100	1.01	B	200	0.917	C	500	0.919	D	1000	0.918	E	2000	0.886
	F	3000	0.831	G	4000	0.823	H	5000	0.785	I	6000	0.755			
Hexachloroethane	A	100	0.736	B	200	0.646	C	500	0.618	D	1000	0.627	E	2000	0.634
	F	3000	0.592	G	4000	0.583	H	5000	0.574	I	6000	0.560			
† N-Nitrosodi-n-propylamine	A	100	0.952	B	200	0.870	C	500	0.839	D	1000	0.878	E	2000	0.887
	F	3000	0.806	G	4000	0.821	H	5000	0.815	I	6000	0.772			
4-Methylphenol	A	100	1.47	B	200	1.20	C	500	1.27	D	1000	1.26	E	2000	1.25
	F	3000	1.18	G	4000	1.15	H	5000	1.15	I	6000	1.13			
Nitrobenzene	A	100	1.43	B	200	1.29	C	500	1.23	D	1000	1.27	E	2000	1.25
	F	3000	1.21	G	4000	1.26	H	5000	1.21	I	6000	1.20			
Isophorone	A	100	0.747	B	200	0.710	C	500	0.714	D	1000	0.706	E	2000	0.692
	F	3000	0.652	G	4000	0.672	H	5000	0.671	I	6000	0.652			

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
 Calibration Date: 05/11/2006

Initial Calibration Summary
Semi-Volatile Organic Compounds by GC/MS

Calibration ID: CAL5348
 Instrument ID: MS10

Column: MS

Analyte Name	Level A			Level B			Level C			Level D			Level E		
	ID	Amt	RRF	ID	Amt	RRF									
† 2-Nitrophenol	A	100	0.189	B	200	0.185	C	500	0.189	D	1000	0.203	E	2000	0.214
	F	3000	0.198	G	4000	0.198	H	5000	0.200	I	6000	0.191			
2,4-Dimethylphenol	A	100	0.301	B	200	0.280	C	500	0.285	D	1000	0.286	E	2000	0.269
	F	3000	0.260	G	4000	0.251	H	5000	0.247	I	6000	0.246			
Bis(2-chloroethoxy)methane	A	100	0.482	B	200	0.424	C	500	0.430	D	1000	0.422	E	2000	0.446
	F	3000	0.385	G	4000	0.389	H	5000	0.391	I	6000	0.374			
† 2,4-Dichlorophenol	A	100	0.310	B	200	0.302	C	500	0.293	D	1000	0.301	E	2000	0.305
	F	3000	0.282	G	4000	0.289	H	5000	0.282	I	6000	0.272			
Benzoic Acid										D	1000	0.0903	E	2000	0.138
	F	3000	0.137	G	4000	0.169	H	5000	0.167	I	6000	0.171			
1,2,4-Trichlorobenzene	A	100	0.375	B	200	0.350	C	500	0.345	D	1000	0.342	E	2000	0.353
	F	3000	0.318	G	4000	0.326	H	5000	0.326	I	6000	0.314			
Naphthalene	A	100	1.07	B	200	0.928	C	500	0.955	D	1000	0.974	E	2000	0.978
	F	3000	0.875	G	4000	0.888	H	5000	0.855	I	6000	0.852			
4-Chloroaniline	A	100	0.457	B	200	0.414	C	500	0.408	D	1000	0.408	E	2000	0.412
	F	3000	0.399	G	4000	0.391	H	5000	0.387	I	6000	0.380			
† Hexachlorobutadiene	A	100	0.209	B	200	0.197	C	500	0.187	D	1000	0.192	E	2000	0.199
	F	3000	0.183	G	4000	0.190	H	5000	0.189	I	6000	0.189			
† 4-Chloro-3-methylphenol	A	100	0.311	B	200	0.287	C	500	0.287	D	1000	0.291	E	2000	0.295
	F	3000	0.274	G	4000	0.265	H	5000	0.278	I	6000	0.271			
2-Methylnaphthalene	A	100	0.607	B	200	0.553	C	500	0.564	D	1000	0.569	E	2000	0.571
	F	3000	0.514	G	4000	0.525	H	5000	0.505	I	6000	0.499			
† Hexachlorocyclopentadiene							C	500	0.286	D	1000	0.327	E	2000	0.381
	F	3000	0.376	G	4000	0.399	H	5000	0.403	I	6000	0.426			
† 2,4,6-Trichlorophenol	A	100	0.425	B	200	0.391	C	500	0.375	D	1000	0.389	E	2000	0.413
	F	3000	0.390	G	4000	0.409	H	5000	0.399	I	6000	0.424			
2,4,5-Trichlorophenol	A	100	0.424	B	200	0.403	C	500	0.407	D	1000	0.416	E	2000	0.461
	F	3000	0.429	G	4000	0.459	H	5000	0.440	I	6000	0.465			
2-Chloronaphthalene	A	100	0.508	B	200	0.455	C	500	0.429	D	1000	0.426	E	2000	0.463
	F	3000	0.429	G	4000	0.437	H	5000	0.436	I	6000	0.436			
2-Nitroaniline	A	100	0.462	B	200	0.390	C	500	0.417	D	1000	0.410	E	2000	0.439
	F	3000	0.426	G	4000	0.443	H	5000	0.449	I	6000	0.460			
Acenaphthylene	A	100	1.98	B	200	1.78	C	500	1.77	D	1000	1.65	E	2000	1.80
	F	3000	1.60	G	4000	1.75	H	5000	1.75	I	6000	1.67			

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† SPCC Compound

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
 Calibration Date: 05/11/2006

Initial Calibration Summary
Semi-Volatile Organic Compounds by GC/MS

Calibration ID: CAL5348
 Instrument ID: MS10

Column: MS

Analyte Name	Level ID	Level Amt	Level RRF	Level ID	Level Amt	Level RRF	Level ID	Level Amt	Level RRF	Level ID	Level Amt	Level RRF
Dimethyl Phthalate	A	100	1.53	B	200	1.39	C	500	1.30	D	1000	1.34
	F	3000	1.33	G	4000	1.39	H	5000	1.37	I	6000	1.39
2,6-Dinitrotoluene	A	100	0.298	B	200	0.294	C	500	0.299	D	1000	0.323
	F	3000	0.347	G	4000	0.357	H	5000	0.347	I	6000	0.360
† Acenaphthene	A	100	1.20	B	200	1.06	C	500	1.06	D	1000	1.04
	F	3000	1.00	G	4000	1.01	H	5000	0.994	I	6000	1.03
3-Nitroaniline	A	100	0.386	B	200	0.348	C	500	0.350	D	1000	0.369
	F	3000	0.363	G	4000	0.381	H	5000	0.386	I	6000	0.384
† 2,4-Dinitrophenol										D	1000	0.0666
	F	3000	0.146	G	4000	0.173	H	5000	0.182	I	6000	0.213
Dibenzofuran	A	100	1.92	B	200	1.73	C	500	1.71	D	1000	1.71
	F	3000	1.60	G	4000	1.62	H	5000	1.61	I	6000	1.62
† 4-Nitrophenol				B	200	0.178	C	500	0.198	D	1000	0.212
	F	3000	0.242	G	4000	0.253	H	5000	0.257	I	6000	0.266
2,4-Dinitrotoluene	A	100	0.403	B	200	0.376	C	500	0.414	D	1000	0.443
	F	3000	0.462	G	4000	0.485	H	5000	0.483	I	6000	0.506
Fluorene	A	100	1.51	B	200	1.36	C	500	1.29	D	1000	1.31
	F	3000	1.26	G	4000	1.28	H	5000	1.27	I	6000	1.29
4-Chlorophenyl Phenyl Ether	A	100	0.743	B	200	0.662	C	500	0.641	D	1000	0.636
	F	3000	0.624	G	4000	0.640	H	5000	0.649	I	6000	0.667
Diethyl Phthalate	A	100	1.66	B	200	1.49	C	500	1.39	D	1000	1.42
	F	3000	1.40	G	4000	1.45	H	5000	1.41	I	6000	1.43
4-Nitroaniline	A	100	0.365	B	200	0.347	C	500	0.356	D	1000	0.381
	F	3000	0.397	G	4000	0.406	H	5000	0.404	I	6000	0.416
2-Methyl-4,6-dinitrophenol							C	500	0.124	D	1000	0.173
	F	3000	0.255	G	4000	0.273	H	5000	0.268	I	6000	0.289
† N-Nitrosodiphenylamine	A	100	1.16	B	200	1.06	C	500	1.04	D	1000	1.07
	F	3000	1.02	G	4000	1.03	H	5000	1.04	I	6000	1.08
4-Bromophenyl Phenyl Ether	A	100	0.249	B	200	0.236	C	500	0.237	D	1000	0.239
	F	3000	0.231	G	4000	0.235	H	5000	0.229	I	6000	0.228
Hexachlorobenzene	A	100	0.296	B	200	0.266	C	500	0.256	D	1000	0.258
	F	3000	0.254	G	4000	0.268	H	5000	0.262	I	6000	0.264
† Pentachlorophenol							C	500	0.116	D	1000	0.135
	F	3000	0.152	G	4000	0.162	H	5000	0.164	I	6000	0.165

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
 Calibration Date: 05/11/2006

Initial Calibration Summary
Semi-Volatile Organic Compounds by GC/MS

Calibration ID: CAL5348
 Instrument ID: MS10

Column: MS

Analyte Name	Level ID	Level Amt	Level RRF									
Phenanthrene	A	100	1.37	B	200	1.21	C	500	1.21	D	1000	1.18
	F	3000	1.14	G	4000	1.12	H	5000	1.11	I	6000	1.08
Anthracene	A	100	1.32	B	200	1.21	C	500	1.23	D	1000	1.20
	F	3000	1.17	G	4000	1.17	H	5000	1.13	I	6000	1.10
Di-n-butyl Phthalate	A	100	1.57	B	200	1.45	C	500	1.48	D	1000	1.47
	F	3000	1.39	G	4000	1.39	H	5000	1.34	I	6000	1.31
† Fluoranthene	A	100	1.37	B	200	1.24	C	500	1.21	D	1000	1.19
	F	3000	1.14	G	4000	1.19	H	5000	1.17	I	6000	1.13
Pyrene	A	100	1.48	B	200	1.41	C	500	1.37	D	1000	1.37
	F	3000	1.32	G	4000	1.32	H	5000	1.32	I	6000	1.29
Butyl Benzyl Phthalate	A	100	0.736	B	200	0.680	C	500	0.672	D	1000	0.678
	F	3000	0.668	G	4000	0.662	H	5000	0.652	I	6000	0.635
3,3'-Dichlorobenzidine	A	100	0.456	B	200	0.427	C	500	0.435	D	1000	0.442
	F	3000	0.440	G	4000	0.465	H	5000	0.469	I	6000	0.458
Benz(a)anthracene	A	100	1.20	B	200	1.10	C	500	1.10	D	1000	1.10
	F	3000	1.07	G	4000	1.11	H	5000	1.11	I	6000	1.09
Chrysene	A	100	1.15	B	200	1.06	C	500	1.07	D	1000	1.07
	F	3000	1.05	G	4000	1.06	H	5000	1.07	I	6000	1.04
Bis(2-ethylhexyl) Phthalate	A	100	0.911	B	200	0.869	C	500	0.884	D	1000	0.909
	F	3000	0.885	G	4000	0.887	H	5000	0.856	I	6000	0.838
† Di-n-octyl Phthalate	A	100	1.89	B	200	1.82	C	500	2.00	D	1000	2.04
	F	3000	2.00	G	4000	2.04	H	5000	1.98	I	6000	1.94
Benzo(b)fluoranthene	A	100	1.33	B	200	1.24	C	500	1.28	D	1000	1.30
	F	3000	1.31	G	4000	1.35	H	5000	1.36	I	6000	1.30
Benzo(k)fluoranthene	A	100	1.36	B	200	1.28	C	500	1.36	D	1000	1.35
	F	3000	1.34	G	4000	1.39	H	5000	1.37	I	6000	1.35
† Benzo(a)pyrene	A	100	1.31	B	200	1.16	C	500	1.23	D	1000	1.25
	F	3000	1.22	G	4000	1.28	H	5000	1.26	I	6000	1.25
Indeno(1,2,3-cd)pyrene	A	100	1.13	B	200	0.968	C	500	1.03	D	1000	1.06
	F	3000	1.09	G	4000	1.15	H	5000	1.13	I	6000	1.15
Dibenz(a,h)anthracene	A	100	1.05	B	200	0.977	C	500	1.03	D	1000	1.07
	F	3000	1.09	G	4000	1.19	H	5000	1.18	I	6000	1.19
Benzo(g,h,i)perylene	A	100	1.21	B	200	1.11	C	500	1.13	D	1000	1.15
	F	3000	1.16	G	4000	1.24	H	5000	1.22	I	6000	1.22

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
 Calibration Date: 05/11/2006

Initial Calibration Summary
Semi-Volatile Organic Compounds by GC/MS

Calibration ID: CAL5348
 Instrument ID: MS10

Column: MS

Analyte Name	Level														
	ID	Amt	RRF												
2-Fluorophenol	A	100	1.40	B	200	1.26	C	500	1.30	D	1000	1.33	E	2000	1.42
	F	3000	1.36	G	4000	1.38	H	5000	1.34	I	6000	1.35			
Phenol-d6	A	100	1.58	B	200	1.43	C	500	1.52	D	1000	1.54	E	2000	1.50
	F	3000	1.34	G	4000	1.36	H	5000	1.25	I	6000	1.23			
Nitrobenzene-d5	A	100	1.51	B	200	1.34	C	500	1.34	D	1000	1.38	E	2000	1.39
	F	3000	1.35	G	4000	1.39	H	5000	1.33	I	6000	1.34			
2-Fluorobiphenyl	A	100	1.45	B	200	1.34	C	500	1.28	D	1000	1.30	E	2000	1.38
	F	3000	1.27	G	4000	1.30	H	5000	1.31	I	6000	1.31			
2,4,6-Tribromophenol	A	100	0.130	B	200	0.135	C	500	0.132	D	1000	0.139	E	2000	0.150
	F	3000	0.144	G	4000	0.150	H	5000	0.151	I	6000	0.154			
Terphenyl-d14	A	100	1.01	B	200	0.959	C	500	0.911	D	1000	0.935	E	2000	0.955
	F	3000	0.885	G	4000	0.928	H	5000	0.910	I	6000	0.909			

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
 Calibration Date: 05/11/2006

Initial Calibration Summary
Semi-Volatile Organic Compounds by GC/MS

Calibration ID: CAL5348
 Instrument ID: MS10

Column: MS

Analyte Name	Compound Type	Calibration Evaluation				RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q
Bis(2-chloroethyl) Ether	TRG	AverageRF	% RSD	8.2		≤ 15	1.27	0.01
† Phenol	MS	AverageRF	% RSD	13.9		≤ 15	1.49	0.01
2-Chlorophenol	MS	AverageRF	% RSD	4.4		≤ 15	1.28	0.01
1,3-Dichlorobenzene	TRG	AverageRF	% RSD	6.7		≤ 15	1.47	0.01
‡ 1,4-Dichlorobenzene	MS	AverageRF	% RSD	8.0		≤ 15	1.48	0.01
1,2-Dichlorobenzene	TRG	AverageRF	% RSD	11.3		≤ 15	1.31	0.01
Benzyl Alcohol	TRG	AverageRF	% RSD	4.9		≤ 15	0.585	0.01
Bis(2-chloroisopropyl) Ether	TRG	AverageRF	% RSD	12.3		≤ 15	2.31	0.01
2-Methylphenol	TRG	AverageRF	% RSD	9.2		≤ 15	0.872	0.01
Hexachloroethane	TRG	AverageRF	% RSD	8.5		≤ 15	0.619	0.01
† N-Nitrosodi-n-propylamine	MS	AverageRF	% RSD	6.3		≤ 15	0.849	0.05
4-Methylphenol	TRG	AverageRF	% RSD	8.5		≤ 15	1.23	0.01
Nitrobenzene	TRG	AverageRF	% RSD	5.5		≤ 15	1.26	0.01
Isophorone	TRG	AverageRF	% RSD	4.6		≤ 15	0.691	0.01
‡ 2-Nitrophenol	TRG	AverageRF	% RSD	4.6		≤ 15	0.196	0.01
2,4-Dimethylphenol	TRG	AverageRF	% RSD	7.3		≤ 15	0.269	0.01
Bis(2-chloroethoxy)methane	TRG	AverageRF	% RSD	8.3		≤ 15	0.416	0.01
‡ 2,4-Dichlorophenol	TRG	AverageRF	% RSD	4.4		≤ 15	0.293	0.01
Benzoic Acid	TRG	Quadratic	COD	0.995		≥ 0.990	0.145	0.01
1,2,4-Trichlorobenzene	MS	AverageRF	% RSD	5.8		≤ 15	0.339	0.01
Naphthalene	TRG	AverageRF	% RSD	7.8		≤ 15	0.931	0.01
4-Chloroaniline	TRG	AverageRF	% RSD	5.5		≤ 15	0.406	0.01
† Hexachlorobutadiene	TRG	AverageRF	% RSD	4.1		≤ 15	0.193	0.01
‡ 4-Chloro-3-methylphenol	MS	AverageRF	% RSD	5.0		≤ 15	0.284	0.01
2-Methylnaphthalene	TRG	AverageRF	% RSD	6.7		≤ 15	0.545	0.01
† Hexachlorocyclopentadiene	TRG	AverageRF	% RSD	13.1		≤ 15	0.371	0.05
‡ 2,4,6-Trichlorophenol	TRG	AverageRF	% RSD	4.3		≤ 15	0.402	0.01
2,4,5-Trichlorophenol	TRG	AverageRF	% RSD	5.5		≤ 15	0.434	0.01
2-Chloronaphthalene	TRG	AverageRF	% RSD	5.8		≤ 15	0.447	0.01
2-Nitroaniline	TRG	AverageRF	% RSD	5.6		≤ 15	0.433	0.01
Acenaphthylene	TRG	AverageRF	% RSD	6.2		≤ 15	1.75	0.01
Dimethyl Phthalate	TRG	AverageRF	% RSD	4.6		≤ 15	1.38	0.01
2,6-Dinitrotoluene	TRG	AverageRF	% RSD	8.2		≤ 15	0.330	0.01
‡ Acenaphthene	MS	AverageRF	% RSD	6.0		≤ 15	1.05	0.01
3-Nitroaniline	TRG	AverageRF	% RSD	4.4		≤ 15	0.373	0.01
† 2,4-Dinitrophenol	TRG	Quadratic	COD	0.998		≥ 0.990	0.150	0.05
Dibenzofuran	TRG	AverageRF	% RSD	5.9		≤ 15	1.69	0.01
† 4-Nitrophenol	MS	AverageRF	% RSD	13.6		≤ 15	0.231	0.05
2,4-Dinitrotoluene	MS	AverageRF	% RSD	9.7		≤ 15	0.449	0.01
Fluorene	TRG	AverageRF	% RSD	5.8		≤ 15	1.32	0.01
4-Chlorophenyl Phenyl Ether	TRG	AverageRF	% RSD	5.3		≤ 15	0.658	0.01
Diethyl Phthalate	TRG	AverageRF	% RSD	5.6		≤ 15	1.46	0.01

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
 Calibration Date: 05/11/2006

Initial Calibration Summary
Semi-Volatile Organic Compounds by GC/MS

Calibration ID: CAL5348
 Instrument ID: MS10

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
4-Nitroaniline	TRG	AverageRF	% RSD	6.4		≤ 15	0.386		0.01
2-Methyl-4,6-dinitrophenol	TRG	Quadratic	COD	0.999		≥ 0.990	0.231		0.01
† N-Nitrosodiphenylamine	TRG	Linear	R2	0.999		≥ 0.990	1.06		0.01
4-Bromophenyl Phenyl Ether	TRG	AverageRF	% RSD	3.3		≤ 15	0.237		0.01
Hexachlorobenzene	TRG	AverageRF	% RSD	4.8		≤ 15	0.266		0.01
† Pentachlorophenol	MS	AverageRF	% RSD	12.3		≤ 15	0.150		0.01
Phenanthrene	TRG	AverageRF	% RSD	7.6		≤ 15	1.18		0.01
Anthracene	TRG	AverageRF	% RSD	5.5		≤ 15	1.20		0.01
Di-n-butyl Phthalate	TRG	AverageRF	% RSD	5.9		≤ 15	1.44		0.01
† Fluoranthene	TRG	AverageRF	% RSD	5.9		≤ 15	1.21		0.01
Pyrene	MS	AverageRF	% RSD	4.5		≤ 15	1.37		0.01
Butyl Benzyl Phthalate	TRG	AverageRF	% RSD	4.6		≤ 15	0.678		0.01
3,3'-Dichlorobenzidine	TRG	AverageRF	% RSD	3.4		≤ 15	0.451		0.01
Benz(a)anthracene	TRG	AverageRF	% RSD	3.5		≤ 15	1.11		0.01
Chrysene	TRG	AverageRF	% RSD	3.4		≤ 15	1.08		0.01
Bis(2-ethylhexyl) Phthalate	TRG	AverageRF	% RSD	3.5		≤ 15	0.887		0.01
† Di-n-octyl Phthalate	TRG	AverageRF	% RSD	5.1		≤ 15	1.99		0.01
Benzo(b)fluoranthene	TRG	AverageRF	% RSD	3.4		≤ 15	1.32		0.01
Benzo(k)fluoranthene	TRG	AverageRF	% RSD	3.5		≤ 15	1.36		0.01
† Benzo(a)pyrene	TRG	AverageRF	% RSD	4.1		≤ 15	1.25		0.01
Indeno(1,2,3-cd)pyrene	TRG	AverageRF	% RSD	5.8		≤ 15	1.09		0.01
Dibenz(a,h)anthracene	TRG	AverageRF	% RSD	7.1		≤ 15	1.10		0.01
Benzo(g,h,i)perylene	TRG	AverageRF	% RSD	4.4		≤ 15	1.19		0.01
2-Fluorophenol	SURR	AverageRF	% RSD	3.7		≤ 15	1.35		0.01
Phenol-d6	SURR	AverageRF	% RSD	8.9		≤ 15	1.42		0.01
Nitrobenzene-d5	SURR	AverageRF	% RSD	4.0		≤ 15	1.37		0.01
2-Fluorobiphenyl	SURR	AverageRF	% RSD	4.2		≤ 15	1.33		0.01
2,4,6-Tribromophenol	SURR	AverageRF	% RSD	6.1		≤ 15	0.143		0.01
Terphenyl-d14	SURR	AverageRF	% RSD	4.1		≤ 15	0.934		0.01

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
 Calibration Date: 05/11/2006
 Date Analyzed: 05/11/2006

Second Source Calibration Verification
Semi-Volatile Organic Compounds by GC/MS

Calibration Type: Internal Standard
 Analysis Method: 8270C

Calibration ID: CAL5348
 Units: ng/ml

File ID: J:\MS10\DATA\051106\0511F012.D
 J:\MS10\DATA\051106\0511F013.D

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Bis(2-chloroethyl) Ether	3000	2700	1.27	1.14	-10	NA	± 30 %	AverageRF
† Phenol	3000	2600	1.49	1.30	-13	NA	± 20 %	AverageRF
2-Chlorophenol	3000	2800	1.28	1.20	-7	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	3000	2700	1.47	1.32	-10	NA	± 30 %	AverageRF
† 1,4-Dichlorobenzene	3000	2700	1.48	1.33	-10	NA	± 20 %	AverageRF
1,2-Dichlorobenzene	3000	2600	1.31	1.14	-13	NA	± 30 %	AverageRF
Benzyl Alcohol	3000	3200	0.585	0.625	7	NA	± 30 %	AverageRF
Bis(2-chloroisopropyl) Ether	3000	2500	2.31	1.96	-15	NA	± 30 %	AverageRF
2-Methylphenol	3000	2700	0.872	0.790	-9	NA	± 30 %	AverageRF
Hexachloroethane	3000	2700	0.619	0.563	-9	NA	± 30 %	AverageRF
† N-Nitrosodi-n-propylamine	3000	2600	0.849	0.744	-12	NA	± 30 %	AverageRF
4-Methylphenol	3000	2800	1.23	1.15	-6	NA	± 30 %	AverageRF
Nitrobenzene	3000	2700	1.26	1.15	-8	NA	± 30 %	AverageRF
Isophorone	3000	2400	0.691	0.547	-21	NA	± 30 %	AverageRF
† 2-Nitrophenol	3000	2900	0.196	0.191	-3	NA	± 20 %	AverageRF
2,4-Dimethylphenol	3000	2900	0.269	0.256	-5	NA	± 30 %	AverageRF
Bis(2-chloroethoxy)methane	3000	2600	0.416	0.356	-14	NA	± 30 %	AverageRF
‡ 2,4-Dichlorophenol	3000	2800	0.293	0.274	-6	NA	± 20 %	AverageRF
Benzoic Acid	3000	2600	0.145	0.124	NA	-14	± 30 %	Quadratic
1,2,4-Trichlorobenzene	3000	2600	0.339	0.298	-12	NA	± 30 %	AverageRF
Naphthalene	3000	2800	0.931	0.857	-8	NA	± 30 %	AverageRF
4-Chloroaniline	3000	2800	0.406	0.381	-6	NA	± 30 %	AverageRF
† Hexachlorobutadiene	3000	2800	0.193	0.177	-8	NA	± 20 %	AverageRF
‡ 4-Chloro-3-methylphenol	3000	2900	0.284	0.271	-5	NA	± 20 %	AverageRF
2-Methylnaphthalene	3000	2900	0.545	0.522	-4	NA	± 30 %	AverageRF
† Hexachlorocyclopentadiene	3000	2400	0.371	0.292	-21	NA	± 30 %	AverageRF
‡ 2,4,6-Trichlorophenol	3000	2800	0.402	0.371	-8	NA	± 20 %	AverageRF
2,4,5-Trichlorophenol	3000	2800	0.434	0.404	-7	NA	± 30 %	AverageRF
2-Chloronaphthalene	3000	2600	0.447	0.392	-12	NA	± 30 %	AverageRF
2-Nitroaniline	3000	3100	0.433	0.442	2	NA	± 30 %	AverageRF
Acenaphthylene	3000	2400	1.75	1.41	-20	NA	± 30 %	AverageRF
Dimethyl Phthalate	3000	2700	1.38	1.23	-11	NA	± 30 %	AverageRF
2,6-Dinitrotoluene	3000	2800	0.330	0.313	-5	NA	± 30 %	AverageRF
‡ Acenaphthene	3000	2600	1.05	0.907	-14	NA	± 20 %	AverageRF
3-Nitroaniline	3000	2900	0.373	0.358	-4	NA	± 30 %	AverageRF
‡ 2,4-Dinitrophenol	3000	3100	0.150	0.152	NA	3	± 30 %	Quadratic
Dibenzofuran	3000	2800	1.69	1.56	-8	NA	± 30 %	AverageRF
‡ 4-Nitrophenol	3000	2900	0.231	0.223	-3	NA	± 30 %	AverageRF
2,4-Dinitrotoluene	3000	2800	0.449	0.419	-7	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
 Calibration Date: 05/11/2006
 Date Analyzed: 05/11/2006

Second Source Calibration Verification
Semi-Volatile Organic Compounds by GC/MS

Calibration Type: Internal Standard
 Analysis Method: 8270C

Calibration ID: CAL5348
 Units: ng/ml

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Fluorene	3000	2700	1.32	1.18	-11	NA	± 30 %	AverageRF
4-Chlorophenyl Phenyl Ether	3000	2600	0.658	0.576	-12	NA	± 30 %	AverageRF
Diethyl Phthalate	3000	2600	1.46	1.26	-14	NA	± 30 %	AverageRF
4-Nitroaniline	3000	3000	0.386	0.389	1	NA	± 30 %	AverageRF
2-Methyl-4,6-dinitrophenol	3000	3100	0.231	0.263	NA	3	± 30 %	Quadratic
† N-Nitrosodiphenylamine	3000	2400	1.06	0.846	NA	-19	± 20 %	Linear
4-Bromophenyl Phenyl Ether	3000	2800	0.237	0.217	-8	NA	± 30 %	AverageRF
Hexachlorobenzene	3000	2700	0.266	0.235	-12	NA	± 30 %	AverageRF
† Pentachlorophenol	3000	3300	0.150	0.163	9	NA	± 20 %	AverageRF
Phenanthrene	3000	2600	1.18	1.04	-12	NA	± 30 %	AverageRF
Anthracene	3000	2700	1.20	1.07	-11	NA	± 30 %	AverageRF
Di-n-butyl Phthalate	3000	2600	1.44	1.25	-13	NA	± 30 %	AverageRF
‡ Fluoranthene	3000	2600	1.21	1.05	-13	NA	± 30 %	AverageRF
Pyrene	3000	3000	1.37	1.35	-1	NA	± 30 %	AverageRF
Butyl Benzyl Phthalate	3000	3000	0.678	0.684	1	NA	± 30 %	AverageRF
3,3'-Dichlorobenzidine	3000	2800	0.451	0.424	-6	NA	± 30 %	AverageRF
Benz(a)anthracene	3000	2900	1.11	1.06	-4	NA	± 30 %	AverageRF
Chrysene	3000	2900	1.08	1.06	-2	NA	± 30 %	AverageRF
Bis(2-ethylhexyl) Phthalate	3000	3100	0.887	0.905	2	NA	± 30 %	AverageRF
† Di-n-octyl Phthalate	3000	3300	1.99	2.21	11	NA	± 20 %	AverageRF
Benzo(b)fluoranthene	3000	3300	1.32	1.47	11	NA	± 30 %	AverageRF
Benzo(k)fluoranthene	3000	3200	1.36	1.45	6	NA	± 30 %	AverageRF
‡ Benzo(a)pyrene	3000	3300	1.25	1.37	9	NA	± 20 %	AverageRF
Indeno(1,2,3-cd)pyrene	3000	3500	1.09	1.27	16	NA	± 30 %	AverageRF
Dibenz(a,h)anthracene	3000	3300	1.10	1.23	12	NA	± 30 %	AverageRF
Benzo(g,h,i)perylene	3000	3300	1.19	1.30	10	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
 Date Analyzed: 06/11/2006

**Continuing Calibration Verification Summary
Semi-Volatile Organic Compounds by GC/MS**

Calibration Type: Internal Standard
 Analysis Method: 8270C
 CCV Standard ID: SVM22-11C

Calibration Date: 05/11/2006
 Calibration ID: CAL5348
 Analysis Lot: KWG0609518
 Units: ng/ml

File ID: J:\MS10\DATA\061106\0611F001.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Bis(2-chloroethyl) Ether	3000	2900	0.01	1.27	1.23	-3	NA	± 30 %	AverageRF
* Phenol	3000	2900	0.01	1.49	1.42	-5	NA	± 20 %	AverageRF
2-Chlorophenol	3000	2900	0.01	1.28	1.25	-3	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	3000	2900	0.01	1.47	1.45	-2	NA	± 30 %	AverageRF
* 1,4-Dichlorobenzene	3000	2900	0.01	1.48	1.42	-4	NA	± 20 %	AverageRF
1,2-Dichlorobenzene	3000	2900	0.01	1.31	1.27	-3	NA	± 30 %	AverageRF
Benzyl Alcohol	3000	3300	0.01	0.585	0.649	11	NA	± 30 %	AverageRF
Bis(2-chloroisopropyl) Ether	3000	3200	0.01	2.31	2.43	5	NA	± 30 %	AverageRF
2-Methylphenol	3000	3000	0.01	0.872	0.885	1	NA	± 30 %	AverageRF
Hexachloroethane	3000	3000	0.01	0.619	0.623	1	NA	± 30 %	AverageRF
* N-Nitrosodi-n-propylamine	3000	3200	0.05	0.849	0.905	7	NA	± 30 %	AverageRF
4-Methylphenol	3000	3000	0.01	1.23	1.22	-1	NA	± 30 %	AverageRF
Nitrobenzene	3000	3200	0.01	1.26	1.34	7	NA	± 30 %	AverageRF
Isophorone	3000	3000	0.01	0.691	0.685	-1	NA	± 30 %	AverageRF
* 2-Nitrophenol	3000	3300	0.01	0.196	0.213	9	NA	± 20 %	AverageRF
2,4-Dimethylphenol	3000	2900	0.01	0.269	0.260	-3	NA	± 30 %	AverageRF
Bis(2-chloroethoxy)methane	3000	3100	0.01	0.416	0.435	5	NA	± 30 %	AverageRF
* 2,4-Dichlorophenol	3000	3100	0.01	0.293	0.303	3	NA	± 20 %	AverageRF
Benzoic Acid	3000	2800	0.01	0.145	0.139	NA	-6	± 30 %	Quadratic
1,2,4-Trichlorobenzene	3000	3000	0.01	0.339	0.341	1	NA	± 30 %	AverageRF
Naphthalene	3000	2900	0.01	0.931	0.901	-3	NA	± 30 %	AverageRF
4-Chloroaniline	3000	3000	0.01	0.406	0.403	-1	NA	± 30 %	AverageRF
* Hexachlorobutadiene	3000	3100	0.01	0.193	0.200	4	NA	± 20 %	AverageRF
* 4-Chloro-3-methylphenol	3000	3000	0.01	0.284	0.283	-1	NA	± 20 %	AverageRF
2-Methylnaphthalene	3000	3000	0.01	0.545	0.548	0	NA	± 30 %	AverageRF
* Hexachlorocyclopentadiene	3000	2900	0.05	0.371	0.357	-4	NA	± 30 %	AverageRF
* 2,4,6-Trichlorophenol	3000	2900	0.01	0.402	0.390	-3	NA	± 20 %	AverageRF
2,4,5-Trichlorophenol	3000	3100	0.01	0.434	0.447	3	NA	± 30 %	AverageRF
2-Chloronaphthalene	3000	2900	0.01	0.447	0.431	-4	NA	± 30 %	AverageRF
2-Nitroaniline	3000	3100	0.01	0.433	0.440	2	NA	± 30 %	AverageRF
Acenaphthylene	3000	3000	0.01	1.75	1.75	0	NA	± 30 %	AverageRF
Dimethyl Phthalate	3000	2900	0.01	1.38	1.33	-3	NA	± 30 %	AverageRF
2,6-Dinitrotoluene	3000	3200	0.01	0.330	0.354	7	NA	± 30 %	AverageRF
* Acenaphthene	3000	3000	0.01	1.05	1.05	-1	NA	± 30 %	AverageRF
3-Nitroaniline	3000	3000	0.01	0.373	0.369	-1	NA	± 30 %	AverageRF
* 2,4-Dinitrophenol	3000	2400	0.05	0.150	0.104	NA	-19	± 30 %	Quadratic
Dibenzofuran	3000	2900	0.01	1.69	1.64	-3	NA	± 30 %	AverageRF
* 4-Nitrophenol	3000	2800	0.05	0.231	0.219	-5	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

* SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4

Service Request: K0604574
Date Analyzed: 06/11/2006

**Continuing Calibration Verification Summary
Semi-Volatile Organic Compounds by GC/MS**

Calibration Type: Internal Standard
Analysis Method: 8270C
CCV Standard ID: SVM22-11C

Calibration Date: 05/11/2006
Calibration ID: CAL5348
Analysis Lot: KWG0609518
Units: ng/ml

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
2,4-Dinitrotoluene	3000	3200	0.01	0.449	0.481	7	NA	± 30 %	AverageRF
Fluorene	3000	2900	0.01	1.32	1.29	-2	NA	± 30 %	AverageRF
4-Chlorophenyl Phenyl Ether	3000	3000	0.01	0.658	0.648	-2	NA	± 30 %	AverageRF
Diethyl Phthalate	3000	2800	0.01	1.46	1.38	-6	NA	± 30 %	AverageRF
4-Nitroaniline	3000	3000	0.01	0.386	0.390	1	NA	± 30 %	AverageRF
2-Methyl-4,6-dinitrophenol	3000	2700	0.01	0.231	0.227	NA	-9	± 30 %	Quadratic
† N-Nitrosodiphenylamine	3000	3000	0.01	1.06	1.04	NA	-1	± 20 %	Linear
4-Bromophenyl Phenyl Ether	3000	3000	0.01	0.237	0.234	-1	NA	± 30 %	AverageRF
Hexachlorobenzene	3000	3100	0.01	0.266	0.272	2	NA	± 30 %	AverageRF
† Pentachlorophenol	3000	3100	0.01	0.150	0.156	4	NA	± 20 %	AverageRF
Phenanthrene	3000	3000	0.01	1.18	1.17	-1	NA	± 30 %	AverageRF
Anthracene	3000	3000	0.01	1.20	1.21	1	NA	± 30 %	AverageRF
Di-n-butyl Phthalate	3000	3200	0.01	1.44	1.52	6	NA	± 30 %	AverageRF
† Fluoranthene	3000	3200	0.01	1.21	1.28	5	NA	± 20 %	AverageRF
Pyrene	3000	2900	0.01	1.37	1.31	-4	NA	± 30 %	AverageRF
Butyl Benzyl Phthalate	3000	3000	0.01	0.678	0.668	-1	NA	± 30 %	AverageRF
3,3'-Dichlorobenzidine	3000	2900	0.01	0.451	0.432	-4	NA	± 30 %	AverageRF
Benz(a)anthracene	3000	2900	0.01	1.11	1.08	-3	NA	± 30 %	AverageRF
Chrysene	3000	3000	0.01	1.08	1.08	0	NA	± 30 %	AverageRF
Bis(2-ethylhexyl) Phthalate	3000	2900	0.01	0.887	0.867	-2	NA	± 30 %	AverageRF
‡ Di-n-octyl Phthalate	3000	3100	0.01	1.99	2.02	2	NA	± 20 %	AverageRF
Benzo(b)fluoranthene	3000	3000	0.01	1.32	1.32	0	NA	± 30 %	AverageRF
Benzo(k)fluoranthene	3000	3100	0.01	1.36	1.41	3	NA	± 30 %	AverageRF
‡ Benzo(a)pyrene	3000	3000	0.01	1.25	1.27	1	NA	± 20 %	AverageRF
Indeno(1,2,3-cd)pyrene	3000	3100	0.01	1.09	1.13	3	NA	± 30 %	AverageRF
Dibenz(a,h)anthracene	3000	3100	0.01	1.10	1.15	4	NA	± 30 %	AverageRF
Benzo(g,h,i)perylene	3000	3200	0.01	1.19	1.27	7	NA	± 30 %	AverageRF
2-Fluorophenol	3000	2600	0.01	1.35	1.17	-13	NA	± 30 %	AverageRF
Phenol-d6	3000	3000	0.01	1.42	1.42	0	NA	± 30 %	AverageRF
Nitrobenzene-d5	3000	3200	0.01	1.37	1.47	7	NA	± 30 %	AverageRF
2-Fluorobiphenyl	3000	3000	0.01	1.33	1.31	-1	NA	± 30 %	AverageRF
2,4,6-Tribromophenol	3000	3100	0.01	0.143	0.147	3	NA	± 30 %	AverageRF
Terphenyl-d14	3000	2900	0.01	0.934	0.918	-2	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
 Project: NW Corner-FRP/8769.005/4

Service Request: K0604574

Analysis Run Log
Semi-Volatile Organic Compounds by GC/MS

Analysis Method: 8270C

 Analysis Lot: KWG0609518
 Instrument ID: MS10

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0611F001.D	Continuing Calibration Verification	KWG0609518-2	6/11/2006	06:34		6/11/2006	07:02
0611T001.D	GC/MS Tuning - Generic	KWG0609518-1	6/11/2006	06:34		6/11/2006	07:02
0611F002.D	Method Blank	KWG0609161-9	6/11/2006	07:11		6/11/2006	07:39
0611F003.D	Lab Control Sample	KWG0609161-10	6/11/2006	07:48		6/11/2006	08:16
0611F004.D	Duplicate Lab Control Sample	KWG0609161-11	6/11/2006	08:26		6/11/2006	08:54
0611F005.D	Batch QCMS	KWG0609161-13	6/11/2006	09:04		6/11/2006	09:32
0611F006.D	Batch QCDMS	KWG0609161-14	6/11/2006	09:41		6/11/2006	10:09
0611F007.D	Batch QC	K0604453-001	6/11/2006	10:19		6/11/2006	10:47
0611F008.D	ZZZZZZ	ZZZZZZ	6/11/2006	10:56		6/11/2006	11:24
0611F009.D	ZZZZZZ	ZZZZZZ	6/11/2006	11:34		6/11/2006	12:02
0611F012.D	ZZZZZZ	ZZZZZZ	6/11/2006	13:00		6/11/2006	13:28
0611F013.D	ZZZZZZ	ZZZZZZ	6/11/2006	13:38		6/11/2006	14:06
0611F014.D	NWC-1-22W	K0604574-006	6/11/2006	14:15		6/11/2006	14:43
0611F015.D	NWC-1-2W	K0604574-007	6/11/2006	14:53		6/11/2006	15:21
0611F016.D	NWC-1-12W	K0604574-010	6/11/2006	15:31		6/11/2006	15:59
0611F017.D	NWC-2-39W	K0604574-011	6/11/2006	16:09		6/11/2006	16:37

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Geomatrix Consultants, Incorporated
Project: NW Corner-FRP/8769.005/4
Sample Matrix: Soil

Service Request: K0604574
Date Extracted: 06/08/2006

Extraction Prep Log
Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3541
Analysis Method: 8270C

Extraction Lot: KWG0609161
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
NWC-1-22W	K0604574-006	06/02/06	06/06/06	40.00g	2ml	82.7	
NWC-1-2W	K0604574-007	06/02/06	06/06/06	40.05g	2ml	79.8	
NWC-1-12W	K0604574-010	06/05/06	06/06/06	40.01g	2ml	86.9	
NWC-2-39W	K0604574-011	06/05/06	06/06/06	40.03g	2ml	83.8	
Method Blank	KWG0609161-9	NA	NA	40.05g	2ml	NA	
Batch QC	K0604453-001	NA	NA	23.39g	2ml	86.0	
Batch QCMS	KWG0609161-13	NA	NA	23.29g	2ml	86.0	
Batch QCDMS	KWG0609161-14	NA	NA	23.36g	2ml	86.0	
Lab Control Sample	KWG0609161-10	NA	NA	20.00g	2ml	NA	
Duplicate Lab Control Sample	KWG0609161-11	NA	NA	20.00g	2ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

June 23, 2006

Service Request No: K0604601



John Long
Geomatrix Consultants, Incorporated
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

RE: Former RP site/8769.005/4

Dear John:

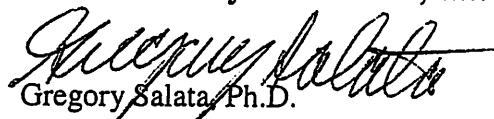
Enclosed are the results of the sample(s) submitted to our laboratory on June 07, 2006. For your reference, these analyses have been assigned our service request number K0604601.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3376.

Respectfully submitted,

Columbia Analytical Services, Inc.


Gregory Salata, Ph.D.
Project Chemist

GS/lmb

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Geomatrix Consultants, Inc. Service Request No.: K0604601
Project: Former RP Site/8769.005/4 Date Received: 06/07/06
Sample Matrix: Soil

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One hundred seventeen soil samples were received for analysis at Columbia Analytical Services on 06/07/06. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Total Metals

Matrix Spike Recovery Exceptions:

The control criteria for matrix spike recovery of Copper for sample NWC-1-37A is not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

The matrix spike recovery of Copper for sample NWC-2-30A was outside the CAS control criteria as a result of a heterogeneous distribution of this analyte in the sample. The associated QA/QC results (e.g. control sample, additional matrix spike, calibration standards, etc.) indicate the analysis was in control. No further corrective action was appropriate.

Relative Percent Difference Exceptions:

The Relative Percent Difference (RPD) for the replicate analysis of Copper in sample NWC-2-1A was outside the normal CAS control limits. The variability in the results is attributed to the heterogeneous distribution of this analyte in the sample. Standard mixing techniques were used, but were not sufficient for complete homogenization of this sample.

No other anomalies associated with the analysis of these samples were observed.

Approved by


Date 6/12/06

Chain of Custody Documentation

CHAIN-OF-CUSTODY RECORD

1C060460

SEA 10113

PROJECT NAME: NW Comer - Former Rhona Powlene						DATE: 6/5/06	PAGE 1 OF 79				
PROJECT NUMBER: 8769.00 S/4	LABORATORY NAME: CAS	CLIENT INFORMATION:			REPORTING REQUIREMENTS:						
RESULTS TO: John Long	LABORATORY ADDRESS: 1317 S. 13th Ave Kelso, WA 98626	Container Properties									
TURNAROUND TIME:	LABORATORY CONTACT: Greg Salata										
SAMPLE SHIPMENT METHOD: Comer	LABORATORY PHONE NUMBER: 360.577-7222				GEOTRACKER REQUIRED		YES NO				
SAMPLERS (SIGNATURE): <i>Laura Sattelwhite</i>		ANALYSES			SITE SPECIFIC GLOBAL ID NO.						
1 2 3 4 5 6 7 8 9 10 11 12	DATE	TIME	SAMPLE NUMBER	METALS-CU	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapors (V), or Other (O)	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
	6/2/06	0923	NWC-1-1A	248	2oz jar	S	Filtered				1
		0924	NWC-2-1A								
		0927	NWC-3-1A								
			NWC-1-2A								
			NWC-2-2A								
			NWC-3-2A								
		1033	NWC-1-3A								
		1035	NWC-2-3A								
		1037	NWC-3-3A								
		1117	NWC-1-4A								
		1118	NWC-2-4A								
		1120	NWC-3-4A								
	1155	NWC-1-5A									
	1158	NWC-2-5A									
	1200	NWC-3-5A									
RELINQUISHED BY:			DATE	TIME	RECEIVED BY:	DATE	TIME	TOTAL NUMBER OF CONTAINERS:			
Signature: <i>Laura Sattelwhite</i>			6/6/06	0705	Signature: <i>Robert Shockley</i>			SAMPLING COMMENTS: hold pending analysis of primary composite samples.			
PRINTED NAME: Laura Sattelwhite					PRINTED NAME: Robert Shockley						
COMPANY: Geomatix					COMPANY: McDelivery						
SIGNATURE:					SIGNATURE:						
PRINTED NAME:			PRINTED NAME:								
COMPANY:			COMPANY:								
SIGNATURE:			SIGNATURE: <i>Mark</i>								
PRINTED NAME: <i>Mark</i>			PRINTED NAME:								
COMPANY: GMS			COMPANY:								
One Union Square, 600 University Street, Suite 1020 Seattle, Washington 98101-4107 Tel 206.342.1760 Fax 206.342.1761											 Geomatix

CHAIN-OF-CUSTODY RECORD

K0604601

SEA 10114

PROJECT NAME: NW Corner - Former Rhine Platene				DATE: 6/5/06	PAGE 2 OF 79						
PROJECT NUMBER:	LABORATORY NAME:	CLIENT INFORMATION:		REPORTING REQUIREMENTS:							
RESULTS TO:	LABORATORY ADDRESS:										
TURNAROUND TIME:											
SAMPLE SHIPMENT METHOD:	LABORATORY CONTACT:			GEOTRACKER REQUIRED							
	LABORATORY PHONE NUMBER:			YES	NO						
				SITE SPECIFIC GLOBAL ID NO.							
SAMPLERS (SIGNATURE): Za S			ANALYSES								
DATE	TIME	SAMPLE NUMBER			CONTAINER TYPE AND SIZE 202 jar	Soil (S), Water (W), Vapor (V), or Other (O) S	Preservative Type Filtered	Cooled	MS/MSD	No. of Containers 1	ADDITIONAL COMMENTS
			Metals-Cu								
13	6/2/06	1303	NWC-1-6A								
14	6/2/06	1305	NWC-2-6A								
15	6/2/06	1304	NWC-3-6A								
16	6/2/06	1339	NWC-1-7A								
17	6/2/06	1341	NWC-2-7A								
18	6/2/06	1343	NWC-3-7A								
19	6/5/06	0807	NWC-1-8A								
20	6/5/06	0809	NWC-2-8A								
21	6/5/06	0810	NWC-3-8A								
22	6/5/06	0838	NWC-1-9A								
23	6/5/06	0839	NWC-2-9A								
24	6/5/06	0839	NWC-3-9A								
25	6/5/06	0908	NWC-1-10A								
26	6/5/06	0909	NWC-2-10A								
27	6/5/06	0910	NWC-3-10A								
RELINQUISHED BY:			DATE	TIME	RECEIVED BY:	DATE	TIME	TOTAL NUMBER OF CONTAINERS:			
SIGNATURE: Za S			SIGNATURE: R Shockey			6/6/06	07:15	SAMPLING COMMENTS: See pg 1			
PRINTED NAME: Zanna Satterwhite	6/6/06	705	PRINTED NAME: Robert Shockey								
COMPANY: Geomatrix			COMPANY: Mc Delivery								
SIGNATURE:			SIGNATURE:								
PRINTED NAME:			PRINTED NAME:								
COMPANY:			COMPANY:								
SIGNATURE:			SIGNATURE: CPam			6/6/06	1300	One Union Square, 600 University Street, Suite 1020 Seattle, Washington 98101-4107 Tel 206.342.1760 Fax 206.342.1761			
PRINTED NAME: CPam			PRINTED NAME: CPam								
COMPANY: Geomatrix			COMPANY: Geomatrix								



Geomatrix

CHAIN-OF-CUSTODY RECORD

K0604601

SEA 10115 PHA
PAGE 3 OF 79

PROJECT NAME:	<i>NW corner former chloroethylene</i>			DATE: 6/5/06	PAGE 3 OF 79						
PROJECT NUMBER:	LABORATORY NAME:	CLIENT INFORMATION:		REPORTING REQUIREMENTS:							
RESULTS TO:	LABORATORY ADDRESS:										
TURNAROUND TIME:											
SAMPLE SHIPMENT METHOD:	LABORATORY CONTACT:			GEOTRACKER REQUIRED	YES NO						
	LABORATORY PHONE NUMBER:			SITE SPECIFIC GLOBAL ID NO.							
SAMPLERS (SIGNATURE): <i>Za S.</i>		ANALYSES									
DATE	TIME	SAMPLE NUMBER	metals - Cu		CONTAINER TYPE AND SIZE <i>202 jar.</i>	Soil (S), Water (W), Vapors (V), or Other (O) <i>S</i>	Preservative Type <i>Filtered</i>	Cooled	MS/MSD	No. of Containers <i>1</i>	ADDITIONAL COMMENTS
25	0915	NWC-1-11A									
26	0916	NWC-2-11A									
30	0920	NWC-3-11A									
		NWC-1-12A									
		NWC-2-12A									
		NWC-3-12A									
31	1004	NWC-1-13A									
32	1006	NWC-2-13A									
33	1009	NWC-3-13A									
34	0858	NWC-1-14A									
35	0857	NWC-2-14A									
36	0859	NWC-3-14A									
37	0826	NWC-1-15A									
38	0827	NWC-2-15A									
39	0829	NWC-3-15A									
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:	DATE	TIME	TOTAL NUMBER OF CONTAINERS:				
SIGNATURE: <i>laura sattenwitz</i>		6/6/06	0705	SIGNATURE: <i>R Shatto</i>	6/6/06	0715	SAMPLING COMMENTS: See page 1				
PRINTED NAME: <i>Laura Sattenwitz</i>				PRINTED NAME: <i>Robert Shatto</i>							
COMPANY: <i>Geomatrix</i>		COMPANY: <i>MC Delivery</i>									
SIGNATURE: <i>laura sattenwitz</i>		SIGNATURE: <i>R Shatto</i>									
PRINTED NAME: <i>Laura Sattenwitz</i>		PRINTED NAME: <i>Robert Shatto</i>									
COMPANY: <i>Geomatrix</i>		COMPANY: <i>MC Delivery</i>									
SIGNATURE: <i>R Shatto</i>		SIGNATURE: <i>R Shatto</i>									
PRINTED NAME: <i>R Shatto</i>		PRINTED NAME: <i>R Shatto</i>									
COMPANY: <i>Geomatrix</i>		COMPANY: <i>Geomatrix</i>									
SIGNATURE: <i>R Shatto</i>		SIGNATURE: <i>R Shatto</i>									
PRINTED NAME: <i>R Shatto</i>		PRINTED NAME: <i>R Shatto</i>									
COMPANY: <i>Geomatrix</i>		COMPANY: <i>Geomatrix</i>									
One Union Square, 600 University Street, Suite 1020 Seattle, Washington 98101-4107 Tel 206.342.1760 Fax 206.342.1761		 Geomatrix									

CHAIN-OF-CUSTODY RECORD

106041601

SEA 10116

PROJECT NAME: <u>NW Corner Bunker Phonebolene</u>						DATE: <u>6/5/06</u>	PAGE 4 OF <u>79</u>					
PROJECT NUMBER:		LABORATORY NAME:		CLIENT INFORMATION:		REPORTING REQUIREMENTS:						
RESULTS TO:		LABORATORY ADDRESS:										
TURNAROUND TIME:												
SAMPLE SHIPMENT METHOD:		LABORATORY CONTACT:				GEOTRACKER REQUIRED						
		LABORATORY PHONE NUMBER:				YES NO						
SAMPLERS (SIGNATURE): <u>Lan S</u>		ANALYSES				SITE SPECIFIC GLOBAL ID NO.						
40	DATE	TIME	SAMPLE NUMBER	metals - Cu		CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
				metals - Cu	metals - Cu							
41	6/5/06	0800	NWC-1-16A			202. jar.	S	Filtered				
42	6/5/06	0801	NWC-2-16A									
43	6/5/06	0802	NWC-3-16A									
44	6/2/06	1304	NWC-1-17A									
45	6/2/06	1330	NWC-2-17A									
46	6/2/06	1331	NWC-3-17A									
47	6/2/06	1253	NWC-1-18A									
48	6/2/06	1255	NWC-2-18A									
49	6/2/06	1257	NWC-3-18A									
50	6/2/06	1140	NWC-1-19A									
51	6/2/06	1143	NWC-2-19A									
52	6/2/06	1145	NWC-3-19A									
53	6/2/06	1105	NWC-1-20A									
54	6/2/06	1107	NWC-2-20A									
	6/2/06	1109	NWC-3-20A									
RELINQUISHED BY:			DATE	TIME	RECEIVED BY:	DATE	TIME	TOTAL NUMBER OF CONTAINERS:				
SIGNATURE: <u>Lan S</u>			6/6/06	705	SIGNATURE: <u>R Shultz</u>	6/6/06	6715	SAMPLING COMMENTS: See page 1				
PRINTED NAME: <u>Janna Sattenvlute</u>					PRINTED NAME: <u>Robert Shultz</u>							
COMPANY: <u>Geomatrix</u>			COMPANY: <u>McDelivery</u>									
SIGNATURE:			SIGNATURE: <u>Dreyfuss</u>									
PRINTED NAME:			PRINTED NAME: <u>A. A. Dreyfuss</u>									
COMPANY:			COMPANY: <u>CIA 3</u>									
SIGNATURE:			SIGNATURE: <u>Dreyfuss</u>	DATE	TIME	One Union Square, 600 University Street, Suite 1020 Seattle, Washington 98101-4107 Tel 206.342.1760 Fax 206.342.1761				 Geomatrix		
PRINTED NAME:			PRINTED NAME: <u>A. A. Dreyfuss</u>	6/6/06	1300							
COMPANY:			COMPANY: <u>CIA 3</u>									

CHAIN-OF-CUSTODY RECORD

K0604601

SEA 10117

PROJECT NAME:	<u>Nw corner River Rhore Pavlane</u>			DATE:	<u>6/5/06</u>	PAGE	<u>5</u>	OF	<u>79</u>					
PROJECT NUMBER:	LABORATORY NAME:	CLIENT INFORMATION:			REPORTING REQUIREMENTS:									
RESULTS TO:	LABORATORY ADDRESS:													
TURNAROUND TIME:														
SAMPLE SHIPMENT METHOD:	LABORATORY CONTACT:				GEOTRACKER REQUIRED	YES	NO							
	LABORATORY PHONE NUMBER:				SITE SPECIFIC GLOBAL ID NO.									
SAMPLERS (SIGNATURE): <u>Za S</u>			ANALYSES					CONTAINER TYPE AND SIZE 2oz. jar.	Soil (S), Water (W), Vapor (V), or Other (O) S	Preservative Type Filtered	Cooled	MS/MSD	No. of Containers 1	ADDITIONAL COMMENTS
			metals-cr											
DATE	TIME	SAMPLE NUMBER												
55	6/2/06	1024 NWC-1-21A												
56	6/2/06	1025 NWC-2-21A												
57	6/2/06	1026 NWC-3-21A												
58	6/2/06	0948 NWC-1-22A												
59	6/2/06	0955 NWC-2-22A												
60	6/2/06	0958 NWC-3-22A												
61	6/2/06	0914 NWC-1-23A												
62	6/2/06	0915 NWC-2-23A												
63	6/2/06	0916 NWC-3-23A												
64	6/2/06	0831 NWC-1-24A												
65	6/2/06	0837 NWC-2-24A												
66	6/2/06	0838 NWC-3-24A												
67	6/2/06	0856 NWC-1-25A												
68	6/2/06	0900 NWC-2-25A												
69	6/2/06	0906 NWC-3-25A												
RELINQUISHED BY:			DATE	TIME	RECEIVED BY:	DATE	TIME	TOTAL NUMBER OF CONTAINERS:						
SIGNATURE: <u>ca</u>	PRINTED NAME: <u>Laura Settembrini</u>	COMPANY: <u>Geomatrix</u>	6/6/06	705	SIGNATURE: <u>Robert Shockey</u>	6/6/06	0715	SAMPLING COMMENTS: See page 1						
					PRINTED NAME: <u>Robert Shockey</u>									
					COMPANY: <u>Inc Delivery</u>									
SIGNATURE:	PRINTED NAME:	COMPANY:			SIGNATURE:									
PRINTED NAME:	COMPANY:				PRINTED NAME:									
COMPANY:					COMPANY:									
SIGNATURE:	PRINTED NAME:	COMPANY:			SIGNATURE: <u>John M. Johnson</u>	6/6/06	1300	One Union Square, 600 University Street, Suite 1020 Seattle, Washington 98101-4107 Tel 206.342.1760 Fax 206.342.1761						
PRINTED NAME:	COMPANY:				PRINTED NAME: <u>John M. Johnson</u>									
COMPANY:					COMPANY: <u>MAIS</u>									


Geomatrix

CHAIN-OF-CUSTODY RECORD

SEA 10118

P64
6 OF 79

PROJECT NAME:	<u>New Corner - Former phone - frontage</u>		DATE: <u>6/5/06</u>	PAGE <u>6</u> OF <u>79</u>
PROJECT NUMBER:	LABORATORY NAME:	CLIENT INFORMATION:	REPORTING REQUIREMENTS:	
RESULTS TO:	LABORATORY ADDRESS:			
TURNAROUND TIME:				
SAMPLE SHIPMENT METHOD:	LABORATORY CONTACT:	LABORATORY PHONE NUMBER:	GEOTRACKER REQUIRED	YES NO
		SITE SPECIFIC GLOBAL ID NO.		

SAMPLERS (SIGNATURE):

Za S

ANALYSES

DATE	TIME	SAMPLE NUMBER	metals	CONTAINER TYPE AND SIZE		Soil (S), Water (W), or Other (O)	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
				Filtered	1						
70	0934	NWC-1-26A									
71	0935	NWC-2-26A									
72	0939	NWC-3-26A									
73	1013	NWC-1-27A									
74	1014	NWC-2-27A									
75	1017	NWC-3-27A									
76	1052	NWC-1-28A									
77	1053	NWC-2-28A									
78	1056	NWC-3-28A									
79	1128	NWC-1-29A									
80	1129	NWC-2-29A									
81	1132	NWC-3-29A									
82	1244	NWC-1-30A									
83	1245	NWC-2-30A									
84	1247	NWC-3-30A									

RELINQUISHED BY:

Za S

DATE

6/6/06/0705

TIME

0715

RECEIVED BY:

R. Shockey

DATE

6/6/06

TIME

0715

TOTAL NUMBER OF CONTAINERS:

SAMPLING COMMENTS:

See page 1

PRINTED NAME:

Janna Battenti

COMPANY:

Geomatrix

SIGNATURE:

PRINTED NAME:

COMPANY:

SIGNATURE:

PRINTED NAME:

COMPANY:

PRINTED NAME:

Robert Shockey

COMPANY:

MC Delivery

SIGNATURE:

PRINTED NAME:

COMPANY:

CHAIN-OF-CUSTODY RECORD

1C060460/

SEA 10119

PROJECT NAME:	<i>NW Corner - Former Rhone Redane</i>		DATE: 6/5/06	PAGE 7 OF 79
PROJECT NUMBER:	LABORATORY NAME:	CLIENT INFORMATION:	REPORTING REQUIREMENTS:	
RESULTS TO:	LABORATORY ADDRESS:			
TURNAROUND TIME:				
SAMPLE SHIPMENT METHOD:	LABORATORY CONTACT:	LABORATORY PHONE NUMBER:	GEOTRACKER REQUIRED	YES NO
			SITE SPECIFIC GLOBAL ID NO.	

SAMPLERS (SIGNATURE):

Tam S

ANALYSES

DATE	TIME	SAMPLE NUMBER	metals-lab	CONTAINER TYPE AND SIZE		Soil (S), Water (W), Vapor (V), or Other (O)	Preservative Type	Filtered	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
				202 jar	S							
85	6/2/06	1316 NWC-1-31A										
86	6/2/06	1317 NWC-2-31A										
87	6/2/06	1318 NWC-3-31A										
88	6/5/06	0751 NWC-1-32A										
89	1	0752 NWC-2-32A										
90	1	0755 NWC-3-32A										
91	0819	NWC-1-33A										
92	0820	NWC-2-33A										
93	0822	NWC-3-33A										
94	0849	NWC-1-34A										
95	0851	NWC-2-34A										
96	0853	NWC-3-34A										
97	0955	NWC-1-35A										
98	0957	NWC-2-35A										
99	↓	1001 NWC-3-35A										

RELINQUISHED BY:

Tam S

DATE

6/6/06

TIME

0705

RECEIVED BY:

R. Shockley

DATE

6/6/06

TIME

0710

TOTAL NUMBER OF CONTAINERS:

SAMPLING COMMENTS: See page 1.

PRINTED NAME:

Tanna Safford

COMPANY:

Geomatrix

SIGNATURE:

PRINTED NAME:

COMPANY:

One Union Square, 600 University Street, Suite 1020
 Seattle, Washington 98101-4107
 Tel 206.342.1760 Fax 206.342.1761



CHAIN-OF-CUSTODY RECORD

K060460/

SEA 10120

PROJECT NAME:	<i>New corner former Rhore Pavlene</i>			DATE: 6/5/06	PAGE 8 OF 9					
PROJECT NUMBER:	LABORATORY NAME:	CLIENT INFORMATION:		REPORTING REQUIREMENTS:						
RESULTS TO:	LABORATORY ADDRESS:									
TURNAROUND TIME:										
SAMPLE SHIPMENT METHOD:	LABORATORY CONTACT:			GEOTRACKER REQUIRED YES NO						
	LABORATORY PHONE NUMBER:			SITE SPECIFIC GLOBAL ID NO.						
SAMPLERS (SIGNATURE): <i>Za S</i>		ANALYSES								
DATE	TIME	SAMPLE NUMBER	CONTAINER TYPE AND SIZE			Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
			Soil (S)	Water (W) Vapor (V), or Other (O)	Filtered					
100	6/5/06	0930 NWC-1-36A								
101		0932 NWC-2-36A								
102		0934 NWC-3-36A								
103		1019 NWC-1-37A								
104		1020 NWC-2-37A								
105		1021 NWC-3-37A								
106		1028 NWC-1-38A								
107		1030 NWC-2-38A								
108		1032 NWC-3-38A								
109		1059 NWC-1-40A								
110		1102 NWC-2-40A								
111		1101 NWC-3-40A								
112		1106 NWC-1-A1A								
113		1108 NWC-2-A1A								
114		1110 NWC-3-A1A								
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:	DATE	TIME	TOTAL NUMBER OF CONTAINERS:			
<i>Za S</i>		6/6/06	705	<i>Robert Shockey</i>	6/6/06	0715	See page 1			
PRINTED NAME: <i>Tanya Satterwhite</i>				COMPANY: <i>Geomatrix</i>						
SIGNATURE:				SIGNATURE:						
PRINTED NAME:				PRINTED NAME:						
COMPANY:				COMPANY:						
SIGNATURE:				SIGNATURE:						
PRINTED NAME:				PRINTED NAME:						
COMPANY:				COMPANY:						
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CHAIN-OF-CUSTODY RECORD

K0604601

SEA 10121

PROJECT NAME: NW Corner - Former Phone Store			DATE: 6/5/06	PAGE 9 OF 9
PROJECT NUMBER:	LABORATORY NAME:	CLIENT INFORMATION:	REPORTING REQUIREMENTS:	
RESULTS TO:	LABORATORY ADDRESS:			
TURNAROUND TIME:				
SAMPLE SHIPMENT METHOD:	LABORATORY CONTACT:		GEOTRACKER REQUIRED	YES
	LABORATORY PHONE NUMBER:		SITE SPECIFIC GLOBAL ID NO.	NO
SAMPLERS (SIGNATURES)				

SAMPLERS (SIGNATURE):

Za S

ANALYSES

5

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	TOTAL NUMBER OF CONTAINERS:
SIGNATURE: <i>Lauren Sattenburg</i>	6/6/06	705	SIGNATURE: <i>Robert Shadley</i>	6/6/06	0715	SAMPLING COMMENTS: See page 1.
PRINTED NAME: Lauren Sattenburg			PRINTED NAME: Robert Shadley			COMPANY: Geomatrix
SIGNATURE:			SIGNATURE:			
PRINTED NAME:			PRINTED NAME:			
COMPANY:			COMPANY:			
SIGNATURE:			SIGNATURE: <i>D. Smith</i>	6/6/06	130x	One Union Square, 600 University Street, Suite 1020 Seattle, Washington 98101-4107 Tel 206.342.1760 Fax 206.342.1761
PRINTED NAME:			PRINTED NAME: <i>M. Agana</i>			
COMPANY:			COMPANY: CWS			

Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form

PC Greg

Project/Client GEOMATRIX Service Request K06 04/01

Cooler received on 6/6/6 and opened on 6/6/6 by AP

1. Were custody seals on outside of coolers?

MCD Y (N)

If yes, how many and where? _____

2. Were custody seals intact?

X N

3. Were signature and date present on the custody seals?

X N

4. Is the shipper's airbill available and filed? If no, record airbill number: _____

(S) N

5. COC#

Temperature of cooler(s) upon receipt: (°C)

5.4

3.5

3.7

4.4

3.5

Temperature Blank: (°C)

5.1

2.6

2.1

N/A

5.8

Were samples hand delivered on the same day as collection?

Y N

6. Were custody papers properly filled out (ink, signed, etc.)?

(S) N

7. Type of packing material present foam, CARDBOARD, ICE

(S) N

8. Did all bottles arrive in good condition (unbroken)?

(S) N

9. Were all bottle labels complete (i.e analysis, preservation, etc.)?

(S) N

10. Did all bottle labels and tags agree with custody papers?

(S) N

11. Were the correct types of bottles used for the tests indicated?

(S) N

12. Were all of the preserved bottles received at the lab with the appropriate pH?

Y N

13. Were VOA vials checked for absence of air bubbles, and if present, noted below?

(S) N

14. Were the 1631 Mercury bottles checked for absence of air bubbles, and if present, noted below?

Y N

15. Did the bottles originate from CAS/K or a branch laboratory?

Y (S) N

16. Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?

Y N

17. Was C12/Res negative?

X N

Explain any discrepancies:

RESOLUTION:

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

Metals

METALS

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Project Name: Former RP site

Sample No.	Lab Sample ID.
NWC-2-1A	K0604601-002
NWC-2-1AD	K0604601-002D
NWC-2-1AS	K0604601-002S
NWC-2-3A	K0604601-005
NWC-2-4A	K0604601-008
NWC-2-5A	K0604601-011
NWC-2-6A	K0604601-014
NWC-2-7A	K0604601-017
NWC-1-8A	K0604601-019
NWC-2-8A	K0604601-020
NWC-2-9A	K0604601-023
NWC-2-10A	K0604601-026
NWC-2-11A	K0604601-029
NWC-2-11AD	K0604601-029D
NWC-2-11AS	K0604601-029S
NWC-1-13A	K0604601-031
NWC-2-13A	K0604601-032
NWC-2-14A	K0604601-035
NWC-2-15A	K0604601-038
NWC-1-16A	K0604601-040
NWC-2-16A	K0604601-041
NWC-2-17A	K0604601-044
NWC-2-18A	K0604601-047

Were ICP interelement corrections applied?

Yes/No YES

Were ICP background corrections applied?

Yes/No YES

If yes-were raw data generated before
application of background corrections?

Yes/No NO

Comments:

Signature: JES CDate: 6/22/96

METALS

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Project Name: Former RP site

Sample No.	Lab Sample ID.
NWC-2-19A	K0604601-050
NWC-2-20A	K0604601-053
NWC-2-20AD	K0604601-053D
NWC-2-20AS	K0604601-053S
NWC-2-21A	K0604601-056
NWC-2-22A	K0604601-059
NWC-2-23A	K0604601-062
NWC-2-24A	K0604601-065
NWC-2-25A	K0604601-068
NWC-2-26A	K0604601-071
NWC-2-27A	K0604601-074
NWC-2-28A	K0604601-077
NWC-2-29A	K0604601-080
NWC-2-30A	K0604601-083
NWC-2-30AD	K0604601-083D
NWC-2-30AS	K0604601-083S
NWC-2-31A	K0604601-086
NWC-1-32A	K0604601-088
NWC-2-32A	K0604601-089
NWC-2-33A	K0604601-092
NWC-2-34A	K0604601-095
NWC-1-35A	K0604601-097
NWC-2-35A	K0604601-098

Were ICP interelement corrections applied?

Yes/No YES

Were ICP background corrections applied?

Yes/No YES

If yes-were raw data generated before
application of background corrections?

Yes/No NO

Comments:

Signature: John C

Date: 6/22/86

METALS

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Project Name: Former RP site

Sample No.	Lab Sample ID.
NWC-1-36A	K0604601-100
NWC-2-36A	K0604601-101
NWC-1-37A	K0604601-103
NWC-1-37AD	K0604601-103D
NWC-1-37AS	K0604601-103S
NWC-2-37A	K0604601-104
NWC-1-38A	K0604601-106
NWC-2-38A	K0604601-107
NWC-1-40A	K0604601-109
NWC-2-40A	K0604601-110
NWC-1-41A	K0604601-112
NWC-2-41A	K0604601-113
NWC-1-42A	K0604601-115
NWC-2-42A	K0604601-116
Method Blank	K0604601-MB
Method Blank 2	K0604601-MB2
Method Blank 3	K0604601-MB3

Were ICP interelement corrections applied?

Yes/No YES

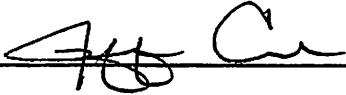
Were ICP background corrections applied?

Yes/No YES

If yes-were raw data generated before
application of background corrections?

Yes/No NO

Comments:

Signature: Date: 4/22/20

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-1A

Lab Code: K0604601-002

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.39	0.12	10	6/16/06	6/19/06	14.7	*	J

% Solids: NA

Comments:

TG
7/13/06

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-3A

Lab Code: K0604601-005

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.40	0.12	10	6/16/06	6/19/06	17.1	*	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-4A

Lab Code: K0604601-008

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.40	0.12	10	6/16/06	6/19/06	180	*	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-5A

Lab Code: K0604601-011

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.40	0.12	10	6/16/06	6/19/06	15.8	*	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-6A

Lab Code: K0604601-014

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.40	0.12	10	6/16/06	6/19/06	36.9	*	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-7A

Lab Code: K0604601-017

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.39	0.12	10	6/16/06	6/19/06	16.6	*	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-1-8A

Lab Code: K0604601-019

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.39	0.12	10	6/16/06	6/19/06	94.8	*	

% Solids: NA

Comments:

METALS

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INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-8A

Lab Code: K0604601-020

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.39	0.12	10	6/16/06	6/19/06	116	*	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-9A

Lab Code: K0604601-023

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.40	0.12	10	6/16/06	6/19/06	24.2	*	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-10A

Lab Code: K0604601-026

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.39	0.12	10	6/16/06	6/19/06	39.7	*	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-11A

Lab Code: K0604601-029

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.79	0.24	20	6/16/06	6/19/06	32.9	*	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-1-13A

Lab Code: K0604601-031

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	3.31	0.99	100	6/16/06	6/19/06	716	*	

% Solids: NA

Comments:

Columbia Analytical Services**METALS****-1-****INORGANIC ANALYSIS DATA SHEET**

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-13A

Lab Code: K0604601-032

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.39	0.12	10	6/16/06	6/19/06	23.0	*	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-14A

Lab Code: K0604601-035

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.39	0.12	10	6/16/06	6/19/06	20.3	*	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-15A

Lab Code: K0604601-038

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	3.85	1.15	100	6/16/06	6/19/06	591	*	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-1-16A

Lab Code: K0604601-040

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.33	0.10	10	6/16/06	6/19/06	89.4	*	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-16A

Lab Code: K0604601-041

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.39	0.12	10	6/16/06	6/19/06	137	*	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-17A

Lab Code: K0604601-044

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.40	0.12	10	6/16/06	6/19/06	39.8	*	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-18A

Lab Code: K0604601-047

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.77	0.23	20	6/16/06	6/19/06	31.3	*	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-19A

Lab Code: K0604601-050

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.38	0.11	10	6/16/06	6/19/06	23.8	*	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-20A

Lab Code: K0604601-053

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.39	0.12	10	6/16/06	6/19/06	45.5	N	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-21A

Lab Code: K0604601-056

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.39	0.12	10	6/16/06	6/19/06	39.8	N	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-22A

Lab Code: K0604601-059

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.40	0.12	10	6/16/06	6/19/06	45.6	N	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-23A

Lab Code: K0604601-062

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	20.00	6.00	500	6/16/06	6/19/06	4190		N

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-24A

Lab Code: K0604601-065

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.39	0.12	10	6/16/06	6/19/06	15.1	N	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-25A

Lab Code: K0604601-068

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.39	0.12	10	6/16/06	6/19/06	19.4		N

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-26A

Lab Code: K0604601-071

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.40	0.12	10	6/16/06	6/19/06	22.0	N	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-27A

Lab Code: K0604601-074

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.39	0.12	10	6/16/06	6/19/06	25.5		N

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-28A

Lab Code: K0604601-077

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.39	0.12	10	6/16/06	6/19/06	13.1	N	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-29A

Lab Code: K0604601-080

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.40	0.12	10	6/16/06	6/19/06	19.8		N

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-30A

Lab Code: K0604601-083

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.39	0.12	10	6/16/06	6/19/06	28.0	N	J -

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/02/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-31A

Lab Code: K0604601-086

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.40	0.12	10	6/16/06	6/19/06	50.8	N	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-1-32A

Lab Code: K0604601-088

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	7.92	2.38	200	6/16/06	6/19/06	1500	N	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-32A

Lab Code: K0604601-089

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.39	0.12	10	6/16/06	6/19/06	64.0		N

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-33A

Lab Code: K0604601-092

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.39	0.12	10	6/16/06	6/19/06	36.1	N	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-34A

Lab Code: K0604601-095

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.39	0.12	10	6/16/06	6/19/06	23.0	N	

% Solids: NA

Comments:

Columbia Analytical Services

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-1-35A

Lab Code: K0604601-097

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	7.62	2.29	200	6/16/06	6/19/06	1330	N	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-35A

Lab Code: K0604601-098

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.39	0.12	10	6/16/06	6/19/06	22.9	N	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-1-36A

Lab Code: K0604601-100

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	4.00	1.20	100	6/16/06	6/19/06	820	N	

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-36A

Lab Code: K0604601-101

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.39	0.12	10	6/16/06	6/19/06	32.2		N

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-1-37A

Lab Code: K0604601-103

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	19.80	5.94	500	6/16/06	6/19/06	3880		

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-37A

Lab Code: K0604601-104

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.39	0.12	10	6/16/06	6/19/06	85.4		

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-1-38A

Lab Code: K0604601-106

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	39.20	11.80	1000	6/16/06	6/19/06	7750		

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-38A

Lab Code: K0604601-107

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.40	0.12	10	6/16/06	6/19/06	20.9		

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-1-40A

Lab Code: K0604601-109

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	19.40	5.83	500	6/16/06	6/19/06	3110		

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-40A

Lab Code: K0604601-110

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.39	0.12	10	6/16/06	6/19/06	91.7		

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-1-41A

Lab Code: K0604601-112

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	3.85	1.15	100	6/16/06	6/19/06	598		

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-41A

Lab Code: K0604601-113

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.40	0.12	10	6/16/06	6/19/06	96.9		

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-1-42A

Lab Code: K0604601-115

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	3.77	1.13	100	6/16/06	6/19/06	957		

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected: 06/05/06

Project Name: Former RP site

Date Received: 06/07/06

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: NWC-2-42A

Lab Code: K0604601-116

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.39	0.12	10	6/16/06	6/19/06	187		

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected:

Project Name: Former RP site

Date Received:

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: Method Blank

Lab Code: K0604601-MB

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.20	0.06	5	6/16/06	6/19/06	0.12	B	*

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected:

Project Name: Former RP site

Date Received:

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: Method Blank 2

Lab Code: K0604601-MB2

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.20	0.06	5	6/16/06	6/19/06	0.09	B	N

% Solids: NA

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Date Collected:

Project Name: Former RP site

Date Received:

Matrix: SOIL

Units: MG/KG

Basis: Wet

Sample Name: Method Blank 3

Lab Code: K0604601-MB3

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.20	0.06	5	6/16/06	6/19/06	0.10	B	

% Solids: NA

Comments:

METALS

-2a-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Project Name: Former RP site

ICV Source: Inorganic Ventures

CCV Source: Various

Concentration Units: ug/l

Analyte	Initial Calibration			Continuing Calibration				Method
	True	Found	%R(1)	True	Found	%R(1)	Found	
Copper	12.5	12.7	102	25.0	24.8	99	24.7	99

Columbia Analytical Services

METALS

-2a-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Project Name: Former RP site

ICV Source:

CCV Source: Various

Concentration Units: ug/l

Analyte	Initial Calibration			Continuing Calibration				Method
	True	Found	%R(1)	True	Found	%R(1)	Found	
Copper				25.0	24.9	99	24.7	99

METALS

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Project Name: Former RP site

ICV Source:

CCV Source: Various

Concentration Units: ug/l

Analyte	Initial Calibration			Continuing Calibration				Method
	True	Found	%R(1)	True	Found	%R(1)	Found	
Copper				25.0	24.9	100	24.7	99

Columbia Analytical Services

METALS

-2a-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Project Name: Former RP site

ICV Source:

CCV Source: Various

Concentration Units: ug/l

Analyte	Initial Calibration			Continuing Calibration				Method
	True	Found	%R(1)	True	Found	%R(1)	Found	
Copper				25.0	24.9	99	25.4	102

METALS

-2a-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Project Name: Former RP site

ICV Source:

CCV Source: Various

Concentration Units: ug/l

Analyte	Initial Calibration			Continuing Calibration				Method
	True	Found	%R(1)	True	Found	%R(1)	Found	
Copper				25.0	25.1	100	25.1	100

METALS

-2a-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Project Name: Former RP site

ICV Source:

CCV Source: Various

Concentration Units: ug/l

Analyte	Initial Calibration			Continuing Calibration				Method
	True	Found	%R(1)	True	Found	%R(1)	Found	
Copper				25.0	24.6	98		6020

METALS

- 2b -

CRDL STANDARD FOR AA AND ICP

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Project Name: Former RP site

Concentration Units: ug/l

Analyte	CRDL Standard for AA			CRDL Standard for ICP			
	True	Found	%R	Initial	Found	%R	Final
Copper				0.20	0.26	131	

METALS

-3-

BLANKS

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Project Name: Former RP site

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)					Preparation Blank C	Method	
		1	C	2	C	3			
Copper	0.12	U	0.12	U	0.12	U	0.12	U	6020

METALS

-3-

BLANKS

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Project Name: Former RP site

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	Method
Copper			0.12	U	0.12	U	0.12	U			6020

Columbia Analytical Services

METALS

-3-

BLANKS

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Project Name: Former RP site

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank C	Method
			1	C	2	C	3	C		
Copper			0.12	U	0.36	B	0.25	B		6020

METALS

-3-

BLANKS

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Project Name: Former RP site

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	Method
		C	1	C	2	C	3	C	C	
Copper			0.12	U	0.12	U				6020

Columbia Analytical Services

METALS

-4-

ICP INTERFERENCE CHECK SAMPLE

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Project Name: Former RP site

ICP ID Number: X Series

ICS Source: Inorganic Ventures

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Copper		20	0.25	22.0	110			

Columbia Analytical Services

METALS

-5a-

SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Units: mg/kg

Project Name: Former RP site

Basis: Wet

Matrix: SOIL

% Solids: NA

Sample Name: NWC-1-37AS

Lab Code: K0604601-103S

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Copper		1540	3880	47.2	-4958		6020

An empty field in the Control Limit column indicates the control limit is not applicable.

Columbia Analytical Services

METALS

- 5a -

SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Units: mg/kg

Project Name: Former RP site

Basis: Wet

Matrix: SOIL

% Solids: NA

Sample Name: NWC-2-11AS

Lab Code: K0604601-029S

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Copper	52 - 153	68.8	32.9	47.2	76		6020

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS

- 5a -

SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Units: mg/kg

Project Name: Former RP site

Basis: Wet

Matrix: SOIL

% Solids: NA

Sample Name: NWC-2-1AS

Lab Code: K0604601-002S

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Copper	52 - 153	64.1	14.7	48.1	103		6020

An empty field in the Control Limit column indicates the control limit is not applicable.

Columbia Analytical Services

METALS

-5a-

SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Units: mg/kg

Project Name: Former RP site

Basis: Wet

Matrix: SOIL

% Solids: NA

Sample Name: NWC-2-20AS

Lab Code: K0604601-053S

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Copper	52 - 153	91.8	45.5	47.6	97		6020

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS

-5a-

SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Units: mg/kg

Project Name: Former RP site

Basis: Wet

Matrix: SOIL

% Solids: NA

Sample Name: NWC-2-30AS

Lab Code: K0604601-083S

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Copper	52 - 153	30.5	28.0	48.1	5	N	6020

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS

-5b-

POST DIGEST SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Units: ug/L

Project Name: Former RP site

Matrix: SOIL

Sample Name:

NWC-2-1AA

Lab Code: K0604601-002A

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Copper	75-125	32.5		15.3		20.0	86	MS	

Comments: _____

METALS

- 5b -

POST DIGEST SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Units: ug/L

Project Name: Former RP site

Matrix: SOIL

Sample Name:

NWC-2-20AA

Lab Code: K0604601-053A

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Copper	75-125	64.7		47.4		20.0	86	MS	

Comments: _____

Columbia Analytical Services

METALS

- 5b -

POST DIGEST SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Units: ug/L

Project Name: Former RP site

Matrix: SOIL

Sample Name:

NWC-2-38AA

Lab Code: K0604601-107A

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Copper	75-125	37.5		20.9		20.0	83	MS	

Comments: _____

METALS

-6-

DUPPLICATES

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Units: mg/kg

Project Name: Former RP site

Basis: Wet

Matrix: SOIL

% Solids: NA

Sample Name:NWC-1-37AD

Lab Code: K0604601-103D

Analyte	Control Limit(%)	Sample (S) C	Duplicate (D) C	RPD	Q	Method
Copper	30	3880	3610	7		6020

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS

-6-

DUPLICATES

Client: Geomatrix Consultants, Incorporated Service Request: K0604601
Project No.: 8769.005/4 Units: mg/kg
Project Name: Former RP site Basis: Wet
Matrix: SOIL % Solids: NA

Sample Name:NWC-2-11AD

Lab Code: K0604601-029D

Analyte	Control Limit(%)	Sample (S) C	Duplicate (D) C	RPD	Q	Method
Copper	30	32.9	36.5	10		6020

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS

- 6 -

DUPPLICATES

Client: Geomatrix Consultants, Incorporated Service Request: K0604601
Project No.: 8769.005/4 Units: mg/kg
Project Name: Former RP site Basis: Wet
Matrix: SOIL % Solids: NA

Sample Name:NWC-2-1AD

Lab Code: K0604601-002D

Analyte	Control Limit(%)	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Copper	30	14.7		23.8		47	*	6020

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS

-6-

DUPLICATES

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Units: mg/kg

Project Name: Former RP site

Basis: Wet

Matrix: SOIL

% Solids: NA

Sample Name:NWC-2-20AD

Lab Code: K0604601-053D

Analyte	Control Limit(%)	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Copper	30	45.5		38.0		18		6020

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS

- 6 -
DUPLICATES

Client: Geomatrix Consultants, Incorporated Service Request: K0604601

Project No.: 8769.005/4 Units: mg/kg

Project Name: Former RP site Basis: Wet

Matrix: SOIL % Solids: NA

Sample Name:NWC-2-30AD

Lab Code: K0604601-083D

Analyte	Control Limit(%)	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Copper	30	28.0		22.9		20		6020

An empty field in the Control Limit column indicates the control limit is not applicable.

Columbia Analytical Services

METALS

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LABORATORY CONTROL SAMPLE

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Project Name: Former RP site

Aqueous LCS Source: Inorganic Ventures

Solid LCS Source: ERA Lot #D045540

Analyte	Aqueous mg/L			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Copper				67.0	68.1	53.8	80.2	102

Columbia Analytical Services

METALS

-7-

LABORATORY CONTROL SAMPLE

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Project Name: Former RP site

Aqueous LCS Source: Inorganic Ventures

Solid LCS Source: ERA Lot #D045540

Analyte	Aqueous mg/L			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Copper				67.0	69.3	53.8	80.2	103

Columbia Analytical Services

METALS

- 7 -

LABORATORY CONTROL SAMPLE

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Project Name: Former RP site

Aqueous LCS Source: Inorganic Ventures

Solid LCS Source: ERA Lot #D045540

Analyte	Aqueous mg/L			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Copper				67.0	64.7	53.8	80.2	96

METALS

-9-

ICP SERIAL DILUTIONS

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Units: ug/L

Project Name: Former RP site

Sample Name: NWC-2-1AL

Lab Code: K0604601-002L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- Q		Method
Copper	15.3	12.3	19	E	6020

METALS

- 9 -

ICP SERIAL DILUTIONS

Client: Geomatrix Consultants, Incorporated Service Request: K0604601
Project No.: 8769.005/4 Units: ug/L
Project Name: Former RP site

Sample Name: NWC-2-20AL

Lab Code: K0604601-053L

Analyte	Initial Sample Result (I)	c	Serial Dilution Result (S)	c	% Differ-	Q	Method
Copper	47.4		57.0		20	E	6020

Columbia Analytical Services

METALS

-9-

ICP SERIAL DILUTIONS

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Units: ug/L

Project Name: Former RP site

Sample Name: NWC-2-38AL

Lab Code: K0604601-107L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- Q	Method
Copper	20.9	22.1	6	6020

Columbia Analytical Services

METALS

-10-

METHOD DETECTION LIMITS

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Project Name: Former RP site

ICP/ICP-MS ID #: X Series

GFAA ID #:

AA ID #:

Analyte	Mass	Back-ground	MRL (ug/L)	MDL (ug/L)	Method
Copper	65		0.40	0.12	6020

Comments _____

METALS

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Geomatrix Consultants, Incorporated

Service Request: K0604601

Project No.: 8769.005/4

Project Name: Former RP site

ICP ID Number: X Series

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Copper	15.00	400.0	6020

Comments: